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Primary Three Examination Papers

2015

Science

1	Anglo Chinese School	CA1	SA1	CA2	SA2
2	River Valley Primary School	CA1	SA1	CA2	SA2
3	Rosyth School	CA1	SA1	CA2	SA2
4	Catholic High School		SA1		
5	Chij St Nicholas School		SA1		SA2
6	Henery Park Primary School		SA1		SA2
7	Nan Hua Primary School		SA1		SA2
8	Maha Bodhi School		SA1		
9	Maris Stella High School		SA1		
10	Methodist Girls School		SA1		SA2
11	Nanyang Primary School		SA1		SA2
12	Paya Lebar Methodist Girls School		SA1		
13	Pei Hwa Presbyterian Primary School		SA1		SA2
14	Raffles Girls Primary School		SA1		SA2
15	Red Swastika School		SA1		SA2
16	Singapore Chinese Girls School		SA1		SA2
17	Tao Nan School		SA1		SA2
18	Temasek Primary School		SA1		SA2

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ANGLO-CHINESE SCHOOL
(JUNIOR)

CONTINUAL ASSESSMENT 1 (2015)
PRIMARY 3

SCIENCE

BOOKLET A

Thursday **5 March 2015** **1 HOUR**

Name : _____ ( )

Class : P3 _____

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 15 questions in this booklet.

Answer **ALL** questions.

INFORMATION FOR PUPILS

The total marks for this booklet is 30.

The total time for Booklets A and B is 1 hour.

This question paper consists of 7 printed pages (inclusive of cover page).

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Booklet A (30 marks)

For each question from 1 to 15, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer on the Optical Answer Sheet. (15 x 2 marks)

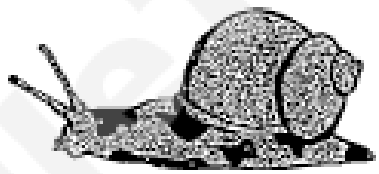
1. Look at the classification table below.

Things		
Group 1	**Group 2**	**Group 3**
float	table-tennis bat	net
goggles	ping pong ball	racket
swimming trunks	net	shuttlecock

The things in the table are classified according to their _____.

(1) uses
(2) sizes
(3) shapes
(4) colours

2. Ryan watched a snail in his garden. He touched it gently and observed that the snail moved into its shell immediately.



Garden snail

Which of the following characteristic of living things did the snail display?

(1) Living things die.
(2) Living things can move from place to place.
(3) Living things respond to changes around them.
(4) Living things need air, food and water to survive.

3. Which of the following is not a characteristic of all living things?

(1) They grow.
(2) They respond to changes around them.
(3) They need air, food and water to survive.
(4) They depend on other living things for food.

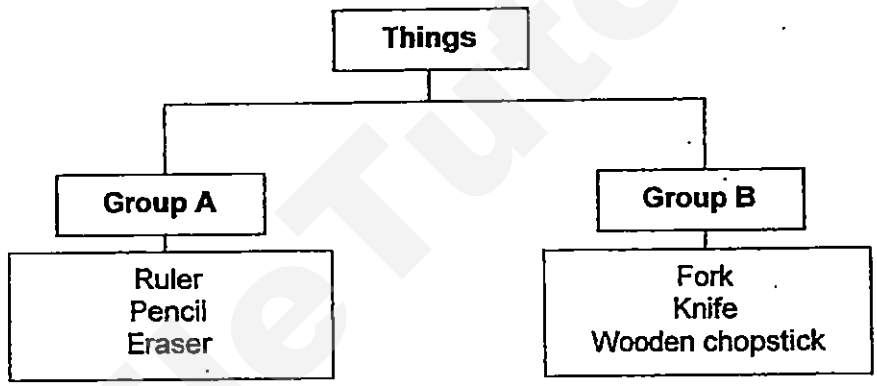
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4. An ambulance can move and sound the siren.
But the ambulance is not a living thing because it **cannot** _____.

A grow
B reproduce
C move from place to place

(1) C only
(2) A and B only
(3) B and C only
(4) A, B and C

5. The classification diagram below shows how two different sets of things are grouped.



Which of the following can be placed in Group A?

(1) Cup
(2) Spoon
(3) Broom
(4) Highlighter

6. Which of the following is **not** a living thing?

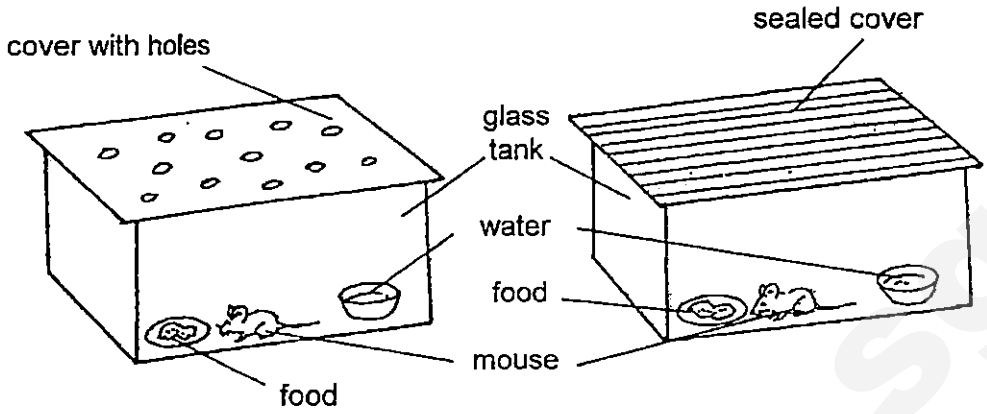
(1) Grass
(2) Cloud
(3) Tadpole
(4) Mushroom

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7. Alisha conducted the following experiment.



Based on the experiment above, she wanted to find out if the mouse needs _____ to survive.

(1) air
(2) food
(3) water
(4) sunlight

8. Study the classification table below.

Food items			
Salty	**Sweet**	**Bitter**	**Sour**
Potato chips	Honey	Chilli	Lemon
French fries	Watermelon	Bittergourd	Green apple

Which one of the following food items have been classified **wrongly**?

(1) Chilli
(2) Honey
(3) French fries
(4) Green apple

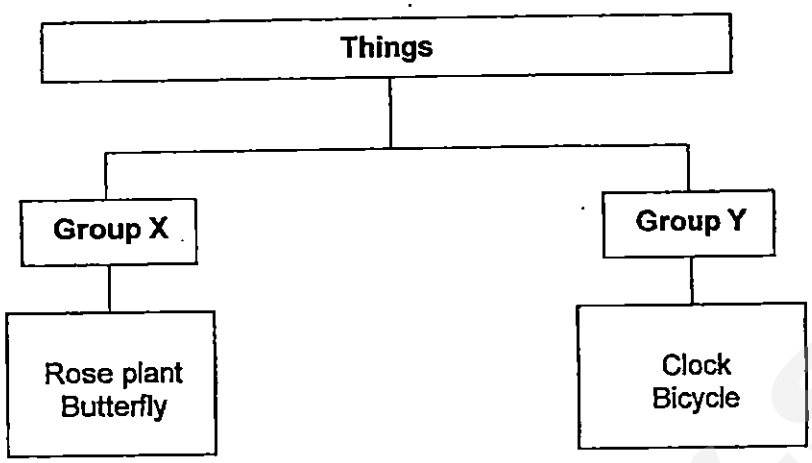
9. Which of the following statements shows growth in a person?

(1) Ali covers his ears when he hears the thunder..
(2) Ali buys a plate of chicken rice as he is feeling hungry.
(3) Ali has a new baby sister as his mother had just given birth.
(4) Ali needs a new pair of pants as the one he has is too short.

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10. Look at the classification chart below.



What are suitable headings for Group X and Group Y?

	Group X	Group Y
(1)	Can reproduce	Cannot reproduce
(2)	Can make food	Cannot make food
(3)	Does not need air, food and water	Needs air, food and water
(4)	Can move freely from place to place	Cannot move freely from place to place

11. Study the pictures of leaves A and B shown below.



Leaf A Leaf B

What is the similarity between Leaf A and Leaf B?

(1) Both of them are water plants.
(2) Both of them have jagged edges.
(3) Both of them have colourful leaves.
(4) Both of them have the same length of leaf stalk.

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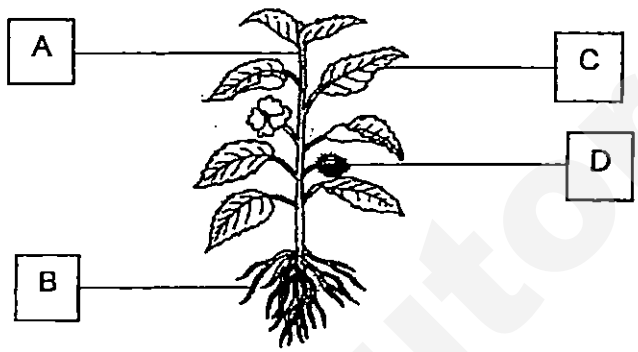
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12. Which of the following is true of **all** plants?

(1) All plants can produce fruits.
(2) All plants make their own food.
(3) All plants have roots, stems and flowers.
(4) All plants have only green coloured leaves.

13. Study the parts of the plant A, B, C and D, shown below.



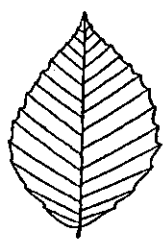
Identify the part of the plant that is **only** present in a flowering plant.

(1) A
(2) B
(3) C
(4) D

14. The following leaves have been classified into 2 groups as shown below.



Leaf A



Leaf B

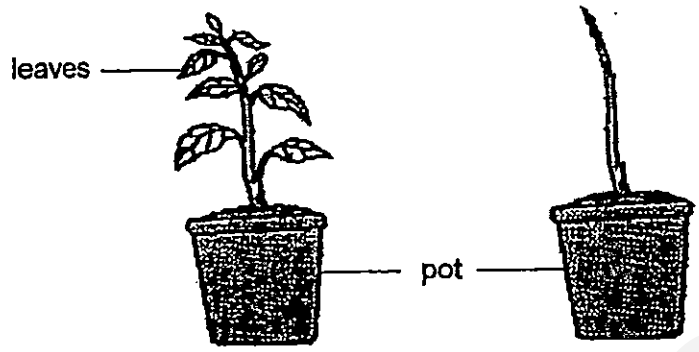
Which of the following best describes the shape of each leaf?

	Leaf A	Leaf B
(1)	oval	round
(2)	palm	heart
(3)	heart	oval
(4)	round	palm

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15. Mr Chen bought 2 pots of similar plants of the same size. Plant B had its leaves removed as shown below. He left them in his balcony where it was airy and had sunlight. He watered them daily.



Plant A Plant B

After a few days, Plant B withered while Plant A was growing well. This shows that plants need _____.

(1) air to live
(2) sunlight to grow
(3) water to survive
(4) leaves to make food

End of Booklet A

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ANGLO-CHINESE SCHOOL
(JUNIOR)

CONTINUAL ASSESSMENT 1 (2015)
PRIMARY 3

SCIENCE

BOOKLET B

Thursday 5 March 2015 1 HOUR

Name : _____ ( )

Class : P3 _____

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 7 questions in this booklet.

Answer **ALL** questions.

INFORMATION FOR PUPILS

The number of marks is given in brackets [ ] at the end of each question or part question.

The total marks for this booklet is 20.

The total time for Booklets A and B is 1 hour.

This question paper consists of 8 printed pages (inclusive of cover page).

BOOKLET A	**/ 30**
BOOKLET B	**/ 20**
TOTAL	**/ 50**
Parent's signature/ Date:	

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Booklet B (20 marks)

For questions 16 to 22, write your answers in this booklet.
The number of marks available is shown in brackets [ ] at the end of each question or part question.

16. Place a cross (X) in the box above the thing that does not belong to each group.
Give a reason why it is different from the rest.

(a) [1]


Sparrow


Orchid


Envelope


Mushroom

Reason: _____

_____

(b) [1]


Apple


Papaya


Rambutan


Watermelon

Reason: _____

_____

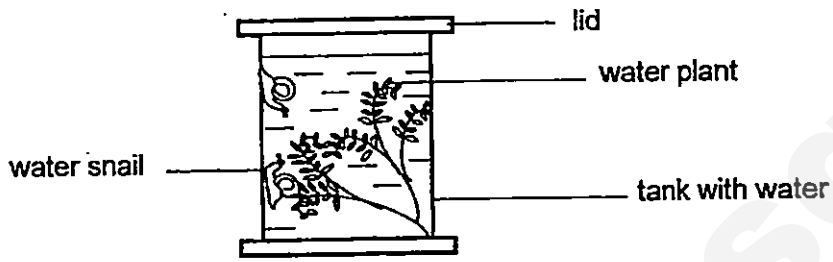
(Go on to the next page)

SCORE	/

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17. Raj wanted to bring his water snails to school to show his classmates. He placed the water snails in a tank together with some water plants and closed the lid tightly in order to prevent the water snails from escaping. After a few hours, Raj found that the water snails had died in the tank.



(a) Why were the water snails able to survive before Raj closed the lid tightly? [1]

_____

_____

(b) Why did the water snails die after he closed the lid tightly? [1]

_____

_____

(c) State one thing Raj could have done to keep the water snails alive and also prevent them from escaping. [1]

_____

_____

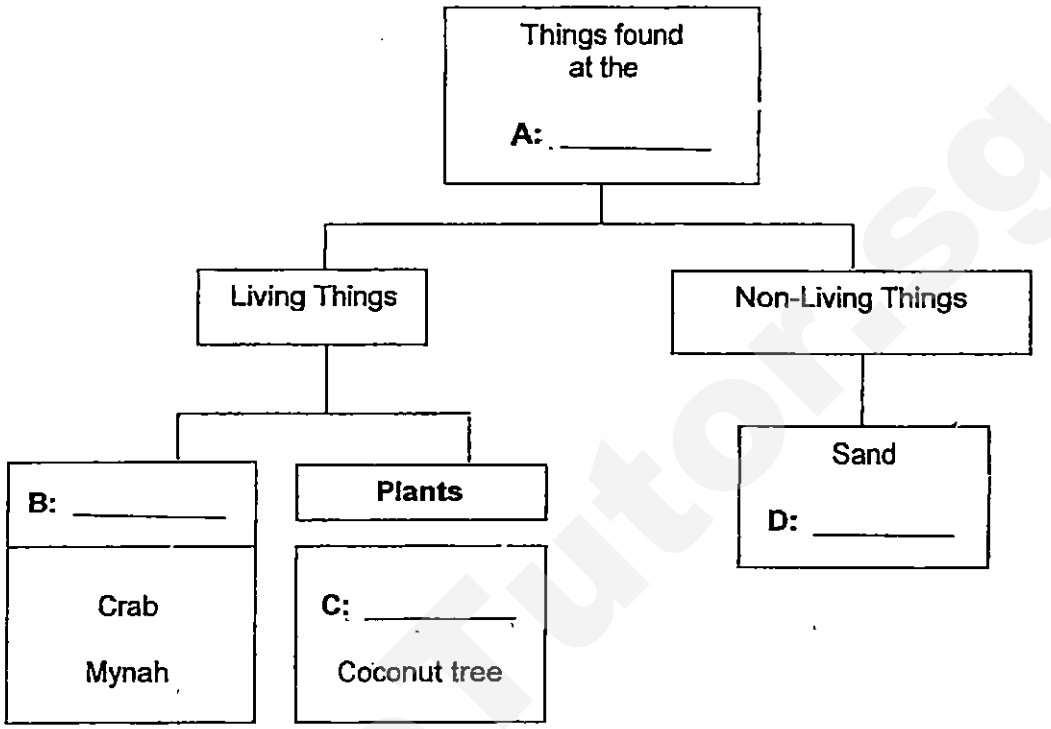
SCORE / 3

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18. Samad classified some things in the classification table below.

Beach	Shell	Animals	Playground	Algae



(a) Fill in the blanks A, B, C and D in the classification chart with the most suitable words provided in the box above. [2]

(b) State a characteristic of living things that both the crab and mynah have that is similar. [1]

_____

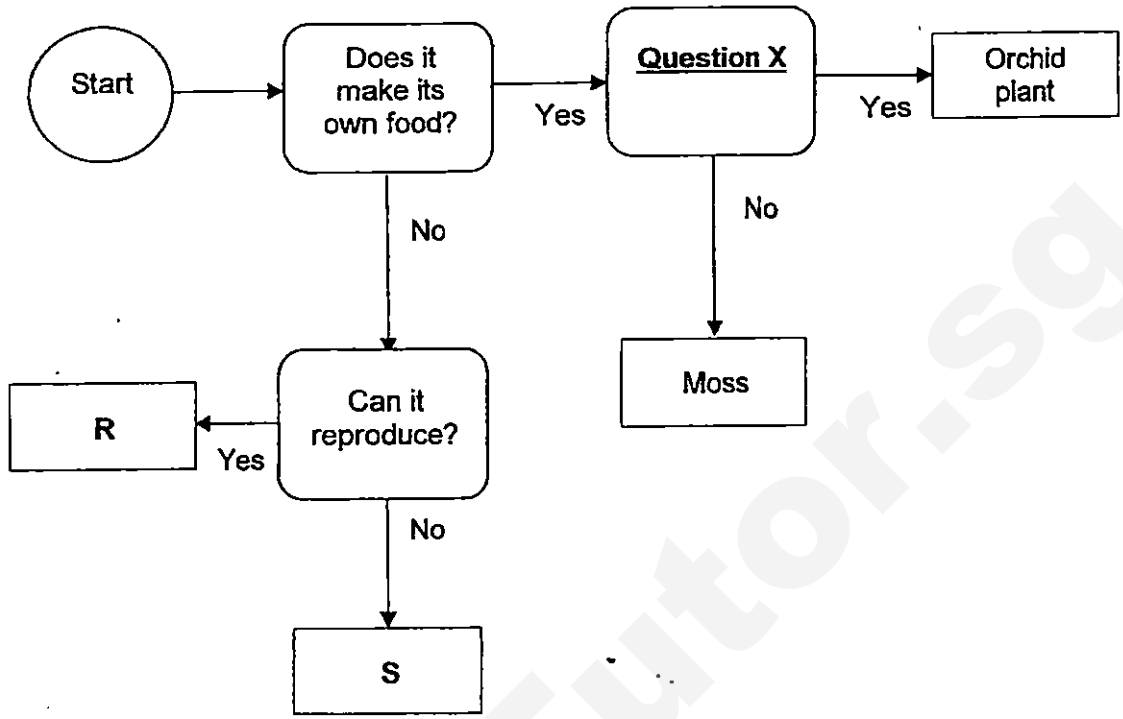
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SCORE ___/3

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19. Study the flow chart below which shows the characteristics of some things.



(a) Based on the flow chart, state a similarity between R and S. [1]

_____

_____

(b) What is the most suitable question to represent Question X in the flow chart above? [1]

_____

(c) Based on the flowchart, what could R and S be? Put a **tick** [✓] in the correct box. [1]

Thing	R	S
Water		
Eagle		

SCORE /

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20. Ben planted a seed and observed it over 6 weeks. The seed grew into a plant, he measured and recorded its height over six weeks as shown below.

Week	Height (cm)
1	3
2	6
3	10
4	14
5	?
6	25

(a) Which characteristic of living things does the plant show? [1]

_____

(b) Based on the results in the table, what would be the likely height of the plant in Week 5? [1]

The height of the plant in Week **5** would be _____ cm.

(c) In Week 8, another identical young plant was observed to be growing beside Ben's plant. Other than growth, state the characteristic of living things shown here. [1]

_____

_____

SCORE	
	3

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21. Look at the two plants which are living things.



Mango Tree



Bird's Nest Fern

(a) Apart from the characteristics stated here, state another similarity and another difference between the Mango Tree and Bird's Nest Fern. [2]

Similarity: _____

_____

Difference: _____

_____

(b)



grass

Does the grass above grow in the same way as the Mango Tree or the Bird's Nest Fern? Why? [1]

_____

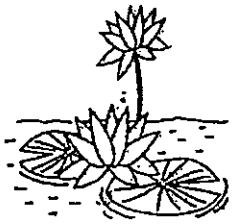
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SCORE	

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22. Study the pictures of 3 different types of flowers A, B and C.



Flower A
Lily



Flower B
Hydrangea



Flower C
Rose

(a) Apart from being different types of flowers, state another difference between the flowers. [2]

(i) Flower A and C:

_____

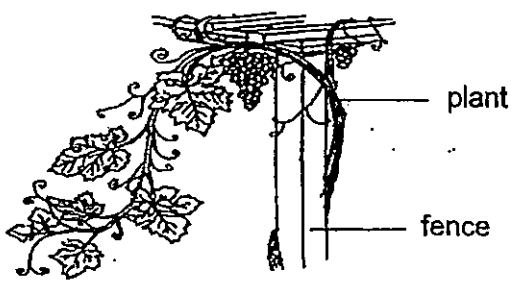
_____

(ii) Flower B and C:

_____

_____

(b) Unlike flowers A, B and C, some plants grow on other plants, on walls and fences like the one shown below.



Give a reason why these plants cannot stand upright by themselves. [1]

_____

_____

End of Paper

SCORE	
	3

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : ANGLO CHINESE SCHOOL (JUNIOR)
SUBJECT : SCIENCE
TERM : CA1

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
1	**3**	**4**	**2**	**4**	**2**	**1**	**1**	**4**	**1**
Q 11	Q 12	Q 13	Q 14	Q 15					
2	**2**	**4**	**3**	**4**					

Q16a. Envelope - Reason : Sparrow, orchid and mushroom are living things but the envelope is a non – living thing.

Q16b. Rambutan – Reason : Apple, papaya and watermelon have a smooth surface but the rambutan has a hairy surface.

Q17a. The water snails are able to survive before Raj closed the lid tightly as they had air, food and water.

Q17b. There was no air after Raj closed the lid tightly.

Q17c. Raj should put a net to keep the water snails alive and also prevent them from escaping.

Q18a. A: Beach B: Animals C: Algae D: Shell

Q18b. They need air, water and food to survive.

Q19a. Both of them does not make its own food.

Q19b. Is it a flowering plant. Q19c. Water – S Eagle – R

Q20a. Plants can grow. Q20b. 19cm Q20c. Living things reproduce.

Q21a. Similarity : They can grow.

Q21a. Difference : Mango tree is a flowering plant but bird's nest fern is a non – flowering plant.

Q21b. It grows the same way as the mango tree as it is a flowering plant.

Q22a. (i) Flower A is an aquatic plant but flower C grows on land.

Q22a. (ii) Flower B grows in a cluster but Flower C grows singly.

Q22b. The stem is weak.

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RIVER VALLEY PRIMARY SCHOOL
CONTINUAL ASSESSMENT 1 / 2015
PRIMARY 3

SCIENCE

(BOOKLET A)

Name : _____ ( ) Date : 5th March 2015

Class : P3 _____ Total Time for Booklet A & Booklet B : 1 hr

INSTRUCTIONS TO CANDIDATES

1. Write your name, index number and class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For Section A, shade your answers for questions 1 to 7 in the Optical Answer Sheet (OAS) provided.
6. For Section B, write your answers for questions 8 to 12 in the space provided in the booklet.
7. The total marks for Booklet A is 14 marks.

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Section A (14 marks)

For each question 1 to 7, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Study the classification table below.

Group 1	Group 2
Lizard	Box
Orchid	Water Bottle
Aeroplane	Key Chain

Which of the following has been classified **wrongly**?

(1) Key Chain

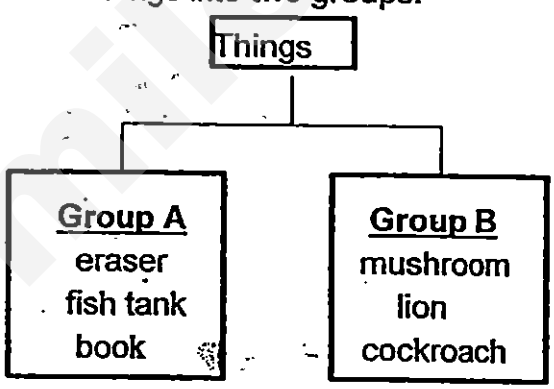
(2) Aeroplane

(3) Box

(4) Orchid

( )

2. Jasper classified some things into two groups.



Which one of the following can be put in **Group B**?

(1) Yeast, Flour, Chocolate

(2) Cotton Plant, Butterfly, Silk Cloth

(3) Giraffe, Grass, Elephant

(4) Envelope, Dried flower, Chicken Rice

( )

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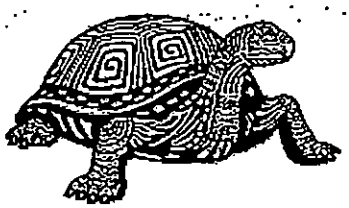
3. Which of the following are characteristics of **all** living things?

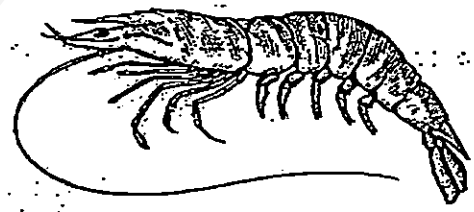
A: Can die
B: Need sunlight
C: Can grow
D: Need air, water and food

(1) A and C only
(2) B and D only
(3) A, B and D only
(4) A, C and D only

( )

4. How are the following animals similar?





All these animals have _____ as their outer coverings.

(1) shells
(2) scales
(3) feelers
(4) hard skin

( )

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Jasmine saw Animal X in a pond. She wrote down the following observations

a) It can breathe through its gills
b) It lays eggs in the water
c) It lays eggs in huge numbers

Which of the following animal groups could the Animal X belong to?

(1) Fish

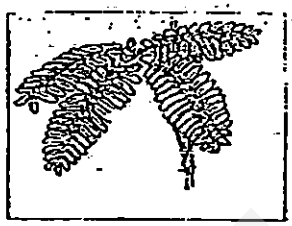
(2) Mammal

(3) Reptiles

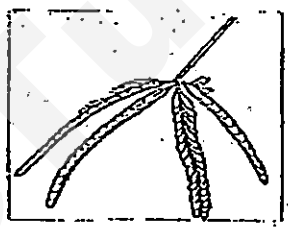
(4) Insect

( )

John touched the leaves of the Plant X. He recorded his observations in the diagram below.



Before touching



After touching

Which of the following characteristics of living things does John's observation show?

(1) Reproducing

(2) Changing its appearance

(3) Looking for food and water

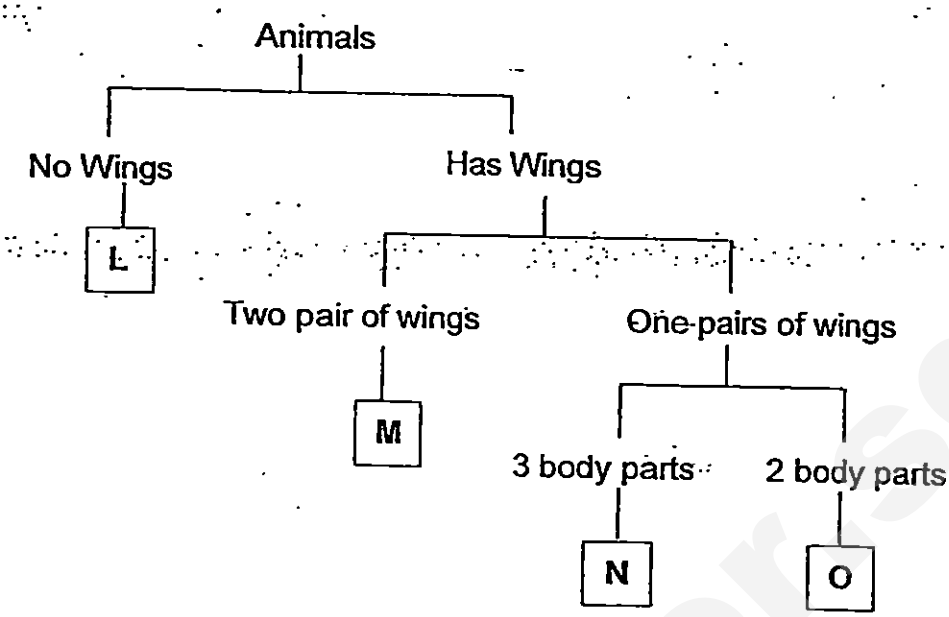
(4) Responding to changes around it

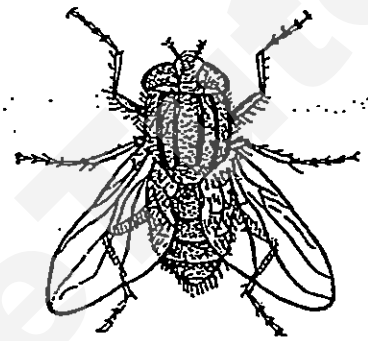
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7. Study the classification diagram below.





Insect A

Rani found Insect A in her school garden. In which group L, M, N and O does it belong under?

(1) L

(2) M

(3) N

(4) O

( )

~ End of Section A ~

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RIVER VALLEY PRIMARY SCHOOL
CONTINUAL ASSESSMENT 1 / 2015
PRIMARY 3

SCIENCE

(BOOKLET B)

Name : _____ ( ) Date : 5th March 2015

Class : P3 _____ Total Time for Booklet A & Booklet B : 1 hr

INSTRUCTIONS TO CANDIDATES

1. Write your name, Index number and class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For Section A, shade your answers for questions 1 to 7 in the Optical Answer Sheet (OAS) provided.
6. For Section B, write your answers for questions 8 to 12 in the space provided in the booklet.
7. The total marks for Booklet B is 16 marks.

Booklet A		/14
Booklet B		/16
Total		/30
Parent's Signature		

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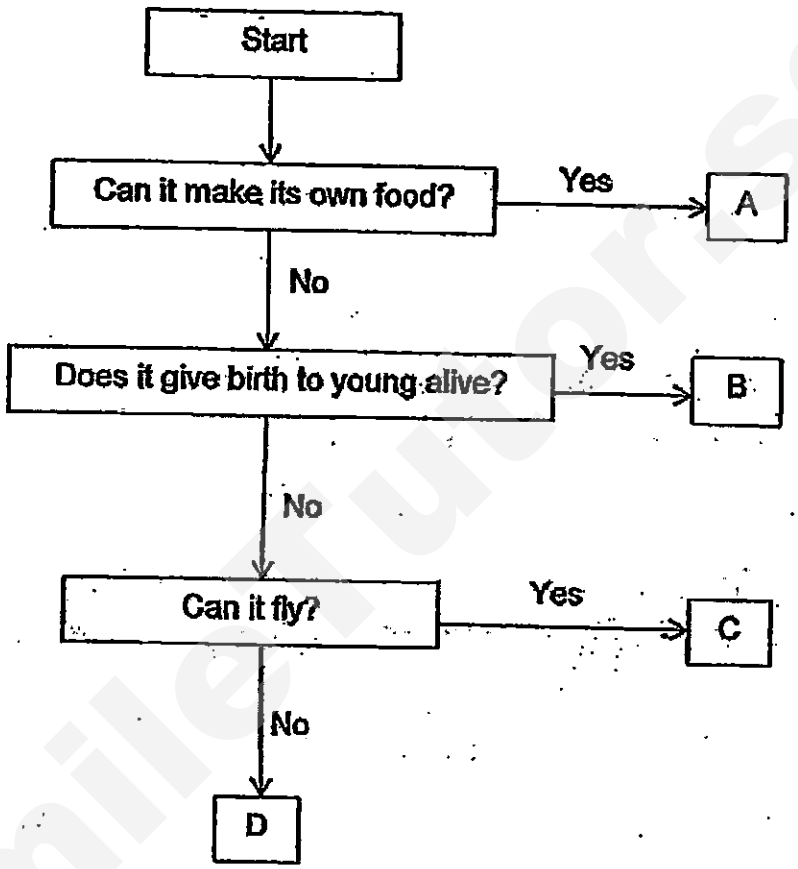
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Section B (16 marks)

Write your answers to questions 8 to 12 in this booklet.

8. Study the flow chart below and answer the following questions.



(a) Based on the flow chart above, state a similarity between B and C. [1m]

_____

_____

(b) Which letter (A, B, C or D) best represents a plant? Explain your answer. [1m]

_____

_____

(c) An ostrich is a bird that cannot fly. Which letter (A, B, C or D) best represents the Ostrich? [1m]

_____

3

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9. Look at the buttons below



Button A



Button B



Button C



Button D

Jane classified the buttons into 2 groups.

Group X	Group Y
A, D	B, C

(a) Give a suitable heading for each group. [1m]

Group X: _____

Group Y: _____

(b) State another characteristic that Jane can use to classify the buttons. [1m]

_____

(c) Based on your answer in (b), how would Jane re-group the buttons? [1m]

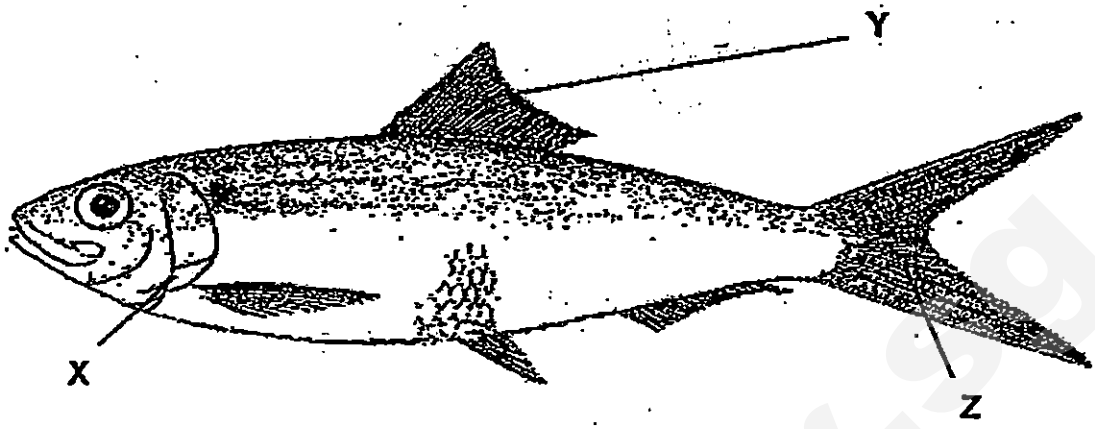
Group S	Group T
_____	_____
_____	_____

3

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10. Look at the diagram below.



(a) Name the parts of the fish. [1m]

X:_____

Y:_____

(b) What can you find under Part X? [1m]

_____

(c) State the function of Part Z? [1m]

_____

(d) The table below shows the number of fish in Tom's fish tank over a period of time.

Months	Number of Fish
1	20
6	25
12	28
18	34
24	38

What could have caused the change in the number of fish in the fish tank if <u>no new fishes were added into the fish tank</u>? [1m]

_____

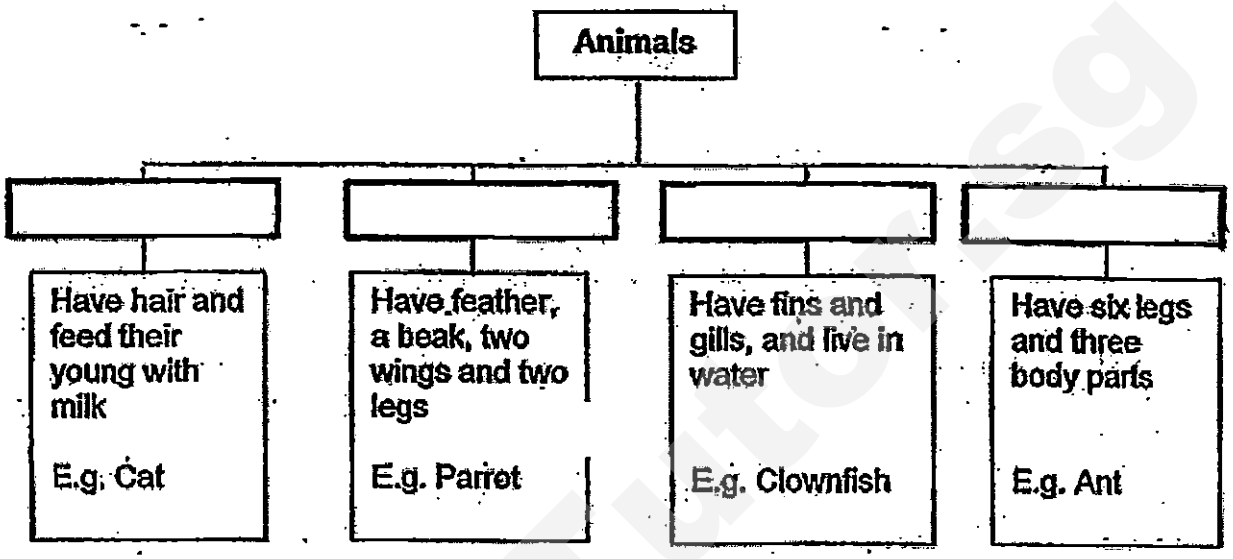
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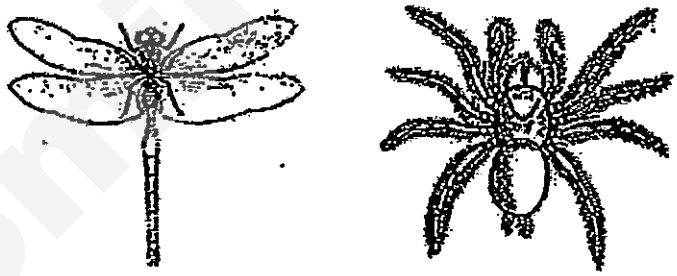
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11(a) Look at the classification chart below.

Complete the classification chart below by filling in each blank with the correct heading. [2m]



(b) Look at the two animals below.



Animal P Animal R

State one difference between Animal P and Animal R. [1m]

_____

3

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12. A group of students made the following statements about living things.

Jasmine: Plants need sunlight to grow but animals do not.

Muthu: All living things need fertilisers to grow well.

Jing Yi: Animals can reproduce but plants do not.

Ahmad: Plants can make their own food but animals cannot.

a) Which student(s) made the wrong statement(s)? [1m]

_____

_____

b) Muthu also said that animals need to move about. Give two reasons why animals need to move about.[2m]

Reason 1: _____

Reason 2: _____

	3

~ End of Section B ~

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EXAM PAPER 2015

SCHOOL : RIVER VALLEY

SUBJECT : P3 SCIENCE

TERM : CA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7
2	2	4	1	1	4	3

8)a)B and C cannot make their own food.

b)The letter A is best represent a plant, It is because that plants can make their own food.

c)The letter D is best represent a ostrich.

9)a)X: have two holes Y: have four holes

b)Jane can classify the buttons according to the colour.

c)Group S : Button B, Button D

Group T : Button C, Button A

10)a)X: gill cover Y: fin

b)I can find gills and part X

c)It helps the fish to move forward

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10)d)The fish is reproducing to increase the number of fish.

11)a)mammals , birds, fishes, insect

b)Animal P has six legs and three body parts but Animal Z has eight legs and 2 body parts.

12)a)Muthu and Jing Yi made the wrong statements.

b)1)They need to look for shelter.

2)They need to find food.

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Rosyth School
Topical Test for 2015
SCIENCE
Primary 3

Name: _____ Total Marks: /30

Class: Pr 3 _____ Register No. _____ Duration: 50min

Date: 2 March 2015 Parent's Signature: _____

Instructions to Pupils:

1. Do not open the booklet until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 2 sections, Part I and Part II.
4. For questions 1 to 7, write the correct answer in the brackets provided.
5. For questions 8 to 12, give your answers in the spaces provided in Part II.

	Maximum	Marks Obtained
Part I	**14 marks**	
Part II	**16 marks**	
Total	**30 marks**	

* This booklet consists of 10 pages. (pg. 1 to 10)

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Part I (14 marks)

For each question from 1 to 7, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Write the correct answer in the bracket provided.

1. Study the classification table below.

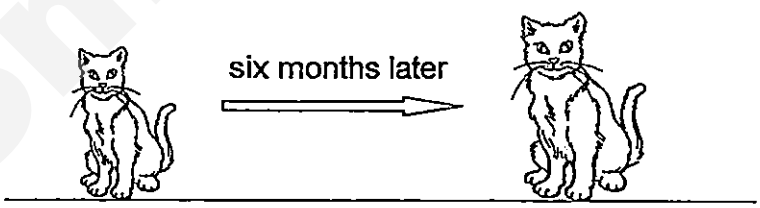
Things	
Non-living things	Living things
ice	tree
fan	bird
chair	cloud
newspaper	snake

Which one of the things above has been classified wrongly?

(1) ice (2) fan
(3) tree (4) cloud

( )

2. Which characteristic of living things does the picture below show?



(1) Living things can grow.
(2) Living things can reproduce.
(3) Living things can move from one place to another.
(4) Living things can respond to changes around them.

( )

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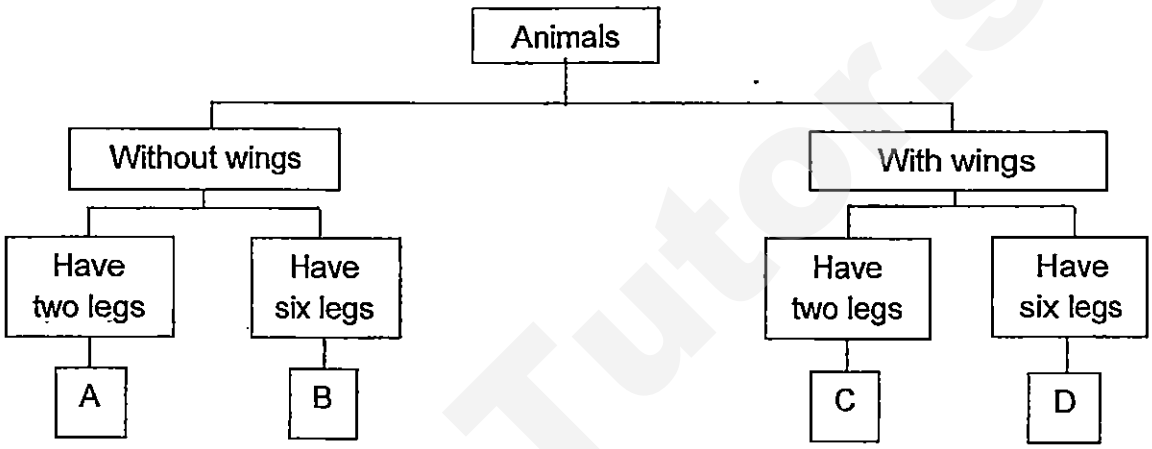
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3. Mrs Lee was cooking in the kitchen when she realised that her baby was crying in the room. Which one of the sense organs did she use?

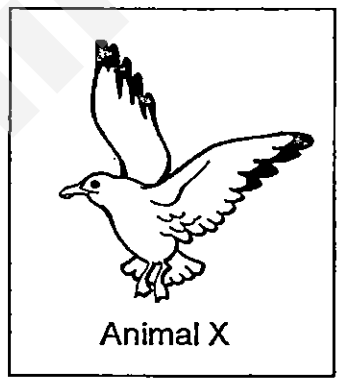
(1) Ears
(2) Nose
(3) Skin
(4) Tongue

( )

4. Study the classification diagram below.



Which group in the classification diagram above does Animal X belong to?



(1) A
(2) B
(3) C
(4) D

( )

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5. Study the table below carefully. A tick (✓) shows that the animal has the characteristic.

Animals	Has two legs	Has wings	Has hair as outer covering	Adult lives both on land and in water
X		✓		
Y			✓	
Z				✓

Three students made a statement on each of the animal in the classification diagram above. Which of the following statement(s) is/are correct?

Alice : Animal X must be a bird as it has wings.
Betty : Animal Y is a mammal as it has hair as its outer covering.
Charlie : Animal Z is an amphibian as it lives on land and in water at adult stage.

1) Betty only
2) Charlie only
3) Alice and Betty
4) Betty and Charlie

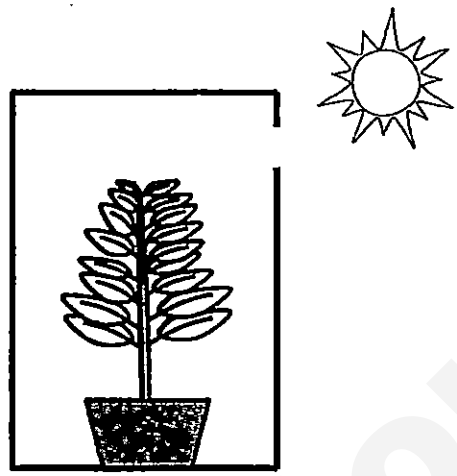
( )

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6. A plant was put into a wooden box as shown in the diagram below. It was given enough water daily.



Which of the following diagram best shows how the plant would look like a few days later?

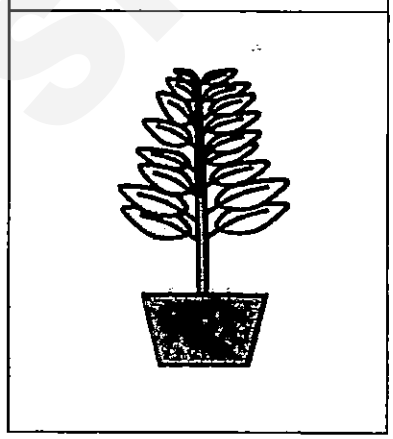
(1)



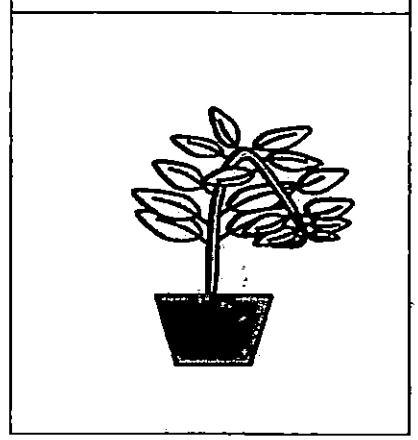
(2)



(3)



(4)

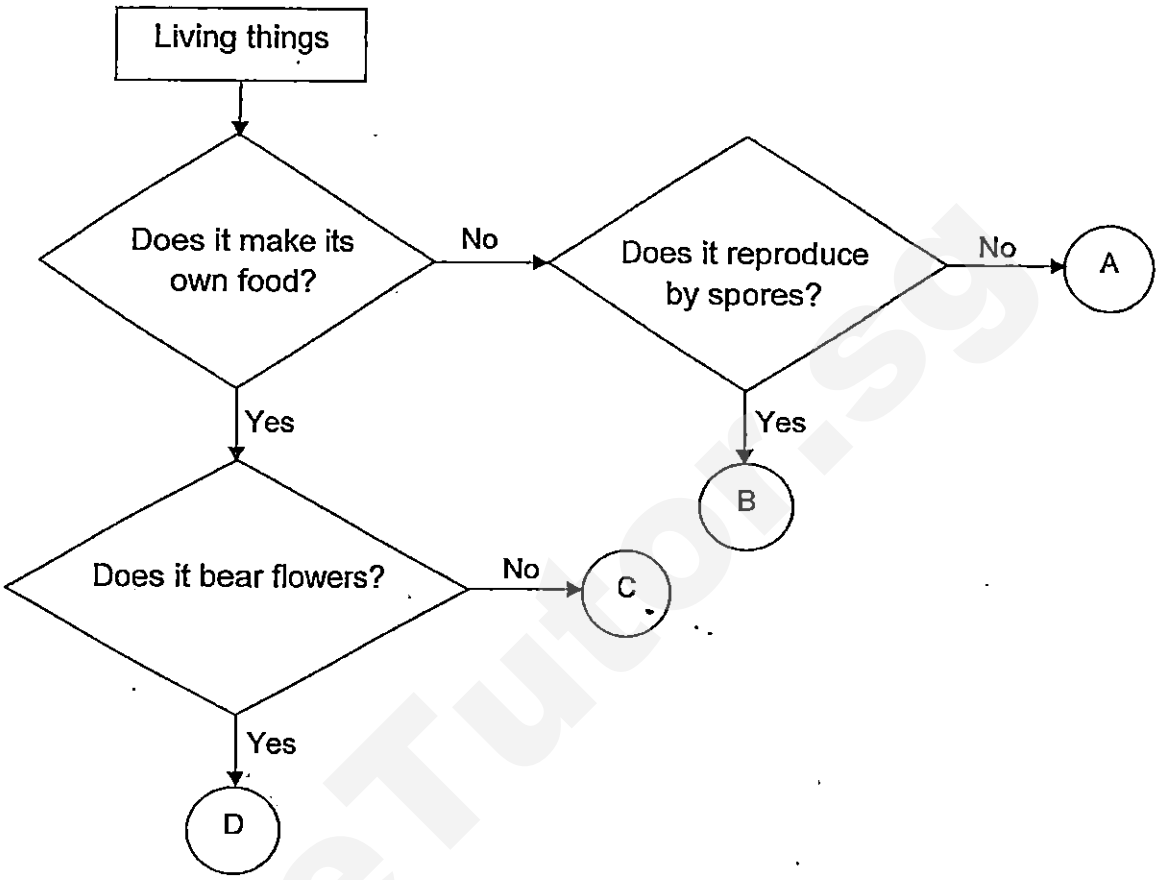


( )

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7. Study the flowchart below carefully.



Jim saw a pot of plant when he visited the Science garden. He turned the underside of the leaves and found neatly arranged spore bags.
Based on Jim's observation, in which group can the plant be placed?

(1) A
(2) B
(3) C
(4) D

( )

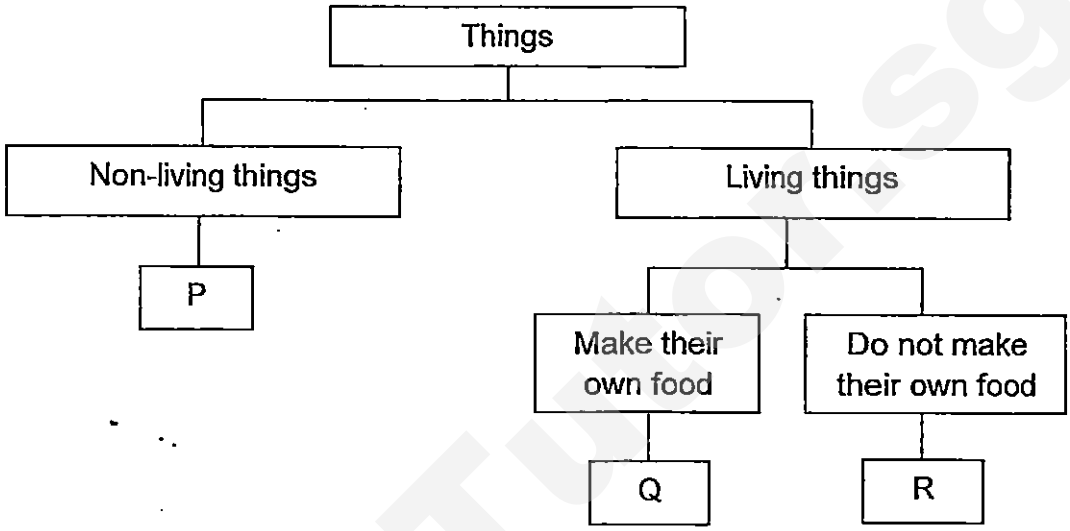
End of Part I

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Part II (16 marks)

For questions 8 to 12, write your answers in the blanks provided.

8. Study the classification diagram below.



(a) Based on the classification diagram above, state the difference between Q and R. (1m)

_____

_____

(b) Based on the classification diagram above, write the letter (P, Q or R) that best represents the following things in the given boxes below. (1m)

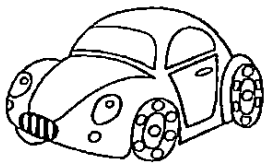
(i) Table : ____

(ii) Mushroom : ____

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9. Jane has a toy car and a puppy.



toy car



puppy

(a) Complete the table below by writing ' toy car '.and 'puppy' in the correct boxes. (1m)

Things	Can it move?	Can it grow?	Does it respond to changes?
(i)_____	Yes	Yes	Yes
(ii)_____	Yes	No	No

(b) Jane said that the toy car is a living thing as it can move. Do you agree with Jane? Support your answer with two reasons. (2m)

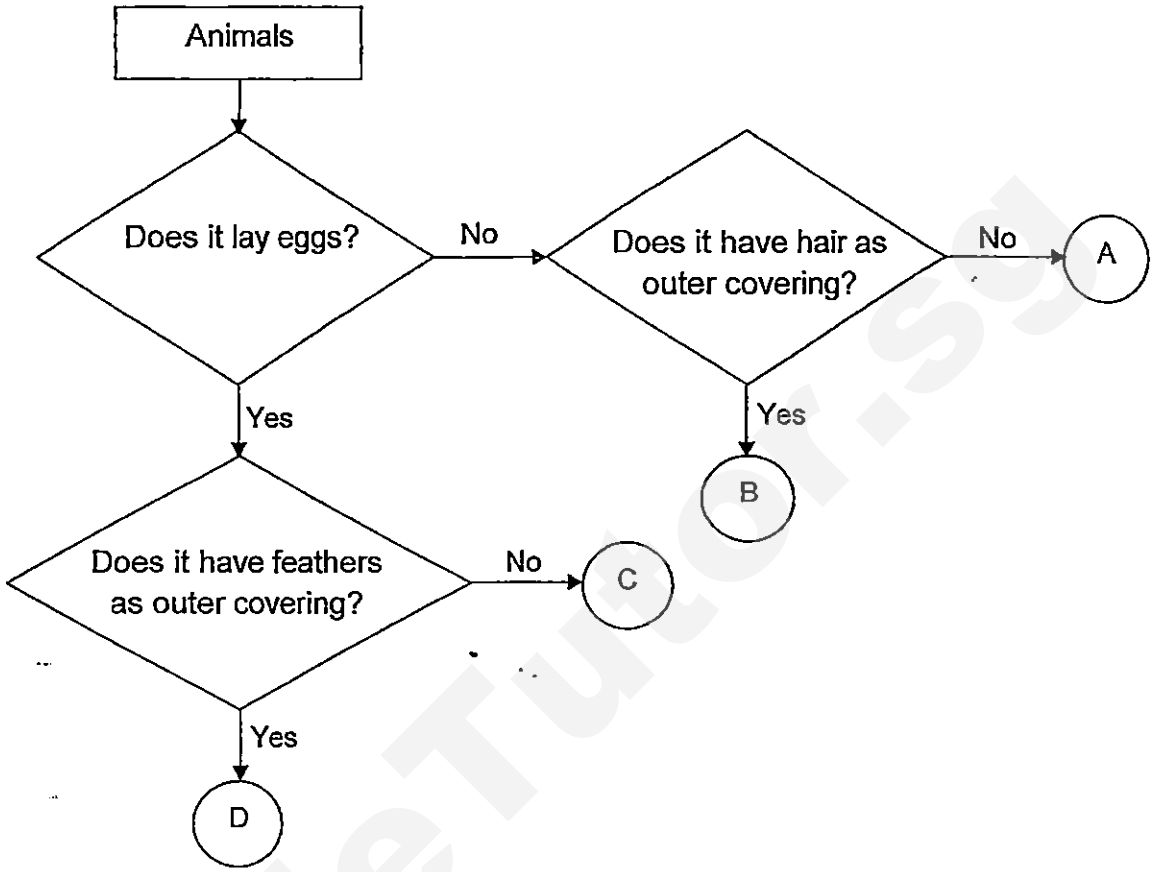
_____

_____

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10. Study the flowchart below carefully.



(a) From the flowchart, state the similarity between Animal A and Animal B. (1m)

_____

_____

(b) From the flowchart, state the difference between Animal C and Animal D. (1m)

_____

_____

(c) Ali said that Animal D can be a chicken. Do you agree with him? Support your answer with a reason. (1m)

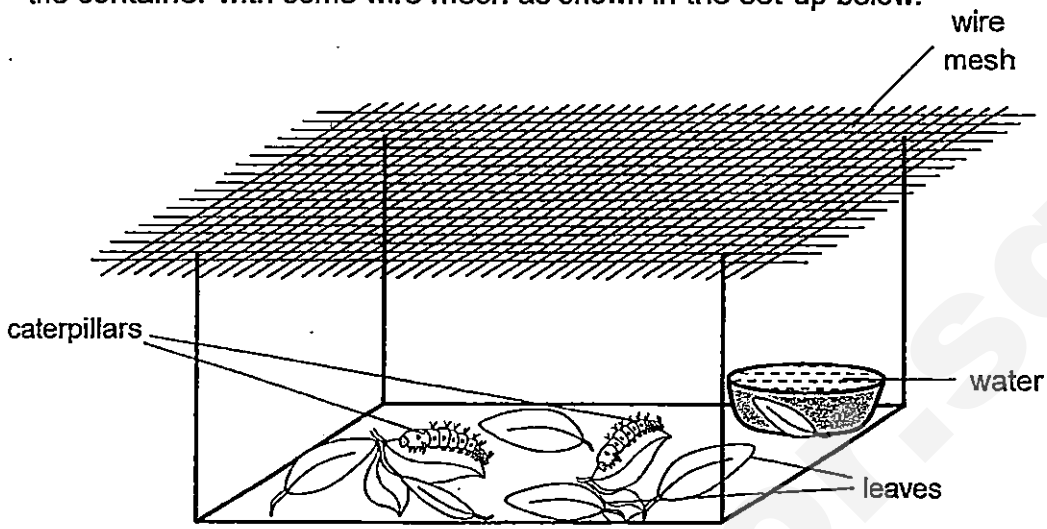
_____

_____

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11. Tom put two caterpillars in a container with some water and leaves. He covered the container with some wire mesh as shown in the set-up below.



(a) What would most likely happen to the number of leaves in the container after a few days? (1m)

_____

_____

(b) Based on the above set-up, state the needs of living things. (1m)

_____

_____

(c) Give a reason why Tom used the wire mesh to cover the container instead of a container lid. (1m)

_____

_____

(d) Tom noticed that the caterpillars were on the wire mesh an hour later. State the characteristic of living things that is observed. (1m)

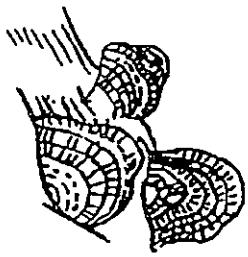
_____

_____

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12. Study the classification table below.

Living Things	
Group A	Group B
 	 

(a) Which group of living things do Group A and B belong to? (2m)

Group A : _____

Group B : _____

(b) Group A does not need sunlight but Group B needs sunlight to survive. Explain why. (2m)

_____

_____

_____

End Of Paper

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : ROSYTH SCHOOL
SUBJECT : SCIENCE
TERM : CA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7
4	**1**	**1**	**3**	**4**	**2**	**3**

Q8a. R cannot make its own food but Q can .

Q8b. (i0 Table : P Q8b (ii) R

Q9a. (i) puppy Q9a (ii) toy car

Q9b. No, the toy car cannot grow and respond to changes , living things can grow and respond to changes.

Q10a. Both of them do not lay eggs.

Q10b. Animal C does not have feathers but animal D has feathers.

Q10c. Animal D, because chickens have feathers and lay eggs and animal D dos has both.

Q11a. There will be lesser leaves because the caterpillars will eat the leaves.

Q11b. Living things need air, food and water.

Q11c. Tom used wire mesh because it lets in air for the caterpillar to breathe but a container lid does not.

Q11d. Living things move by themselves.

Q12a. Fungi / Plants

Q12b. Group A (Fungi) feeds on the rotting food / trees food and does not need sunlight to survive while Group B (plants) need sunlight to make food to survive.

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ANGLO-CHINESE SCHOOL
(JUNIOR)

SEMESTRAL ASSESSMENT 1 (2015)
PRIMARY 3

SCIENCE

BOOKLET A

Friday **8 May 2015** **1 hour 30 minutes**

Name : _____ **(** **)**

Class : P3 _____

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 25 questions in this booklet.

Answer **ALL** questions.

INFORMATION FOR PUPILS

The total marks for this booklet is 50.

The total time for Booklets A and B is 1 hour 30 minutes.

This question paper consists of 14 printed pages (inclusive of cover page).

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Booklet A (50 marks)

For each question from 1 to 25, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer on the Optical Answer Sheet. (25 x 2 marks)

1. Study the table below.

A	B
Remote – controlled toy car Train Aeroplane	Cat Rose plant Tadpole

The things are classified according to whether they _____.

(1) can grow
(2) have a tail
(3) produce flowers
(4) can make their own food

2. The diagrams below show the animal before and after it was touched.



Before touching After touching

This shows that living things can _____.

(1) grow
(2) reproduce
(3) respond to changes
(4) move from place to place

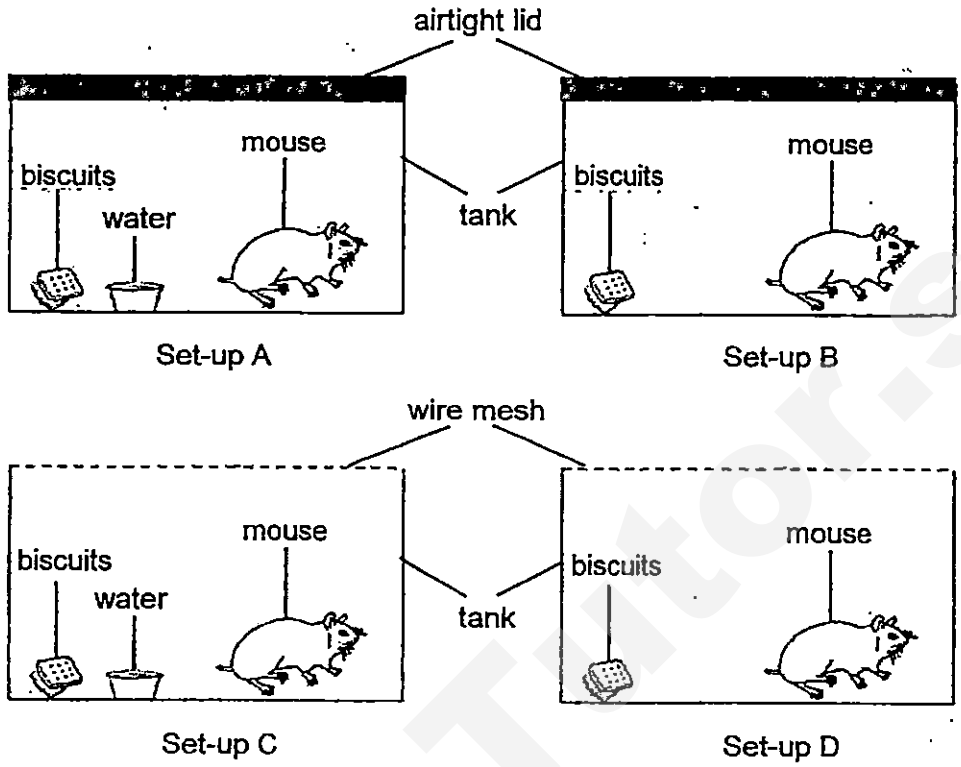
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Study the diagrams below and answer questions 3 and 4.

3. Ben set up an experiment to see if animals need air to survive.



Which of the following pairs of set-up should he use to ensure a fair experiment?

(1) A and B
(2) A and C
(3) B and C
(4) C and D

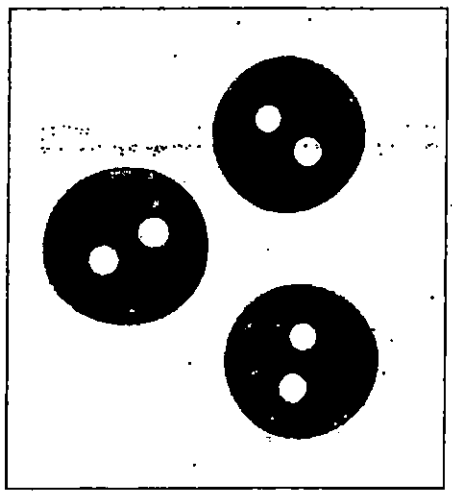
4. Ben decides to use set-up C and D for his next experiment. Ben is trying to investigate if living things _____.

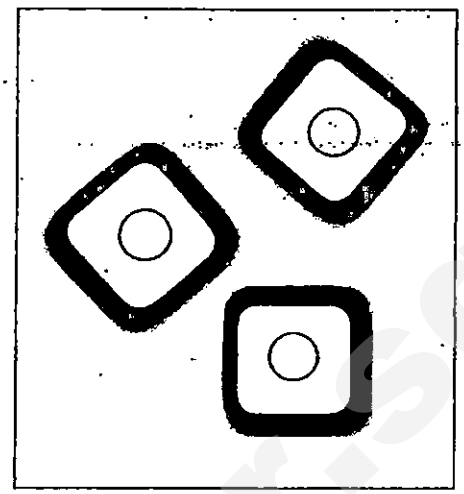
(1) can grow
(2) can reproduce
(3) need food to survive
(4) need water to survive

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5. Study the two groups of objects.





The objects above are grouped according to their _____.

A size
B shape
C number of holes

(1) B only
(2) A and C only
(3) B and C only
(4) A, B and C

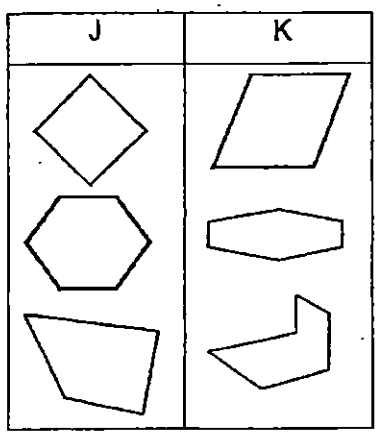
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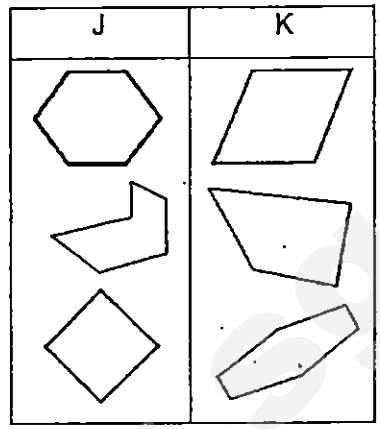
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6. Theo has classified some shapes in different ways as shown below.
Which of the following shows the correct classification of the shapes?

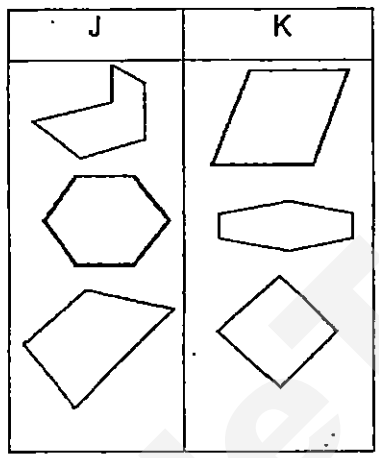
(1)



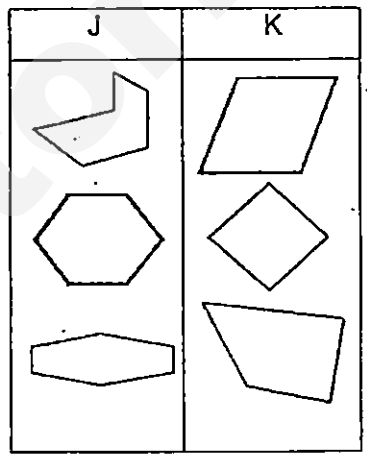
(2)



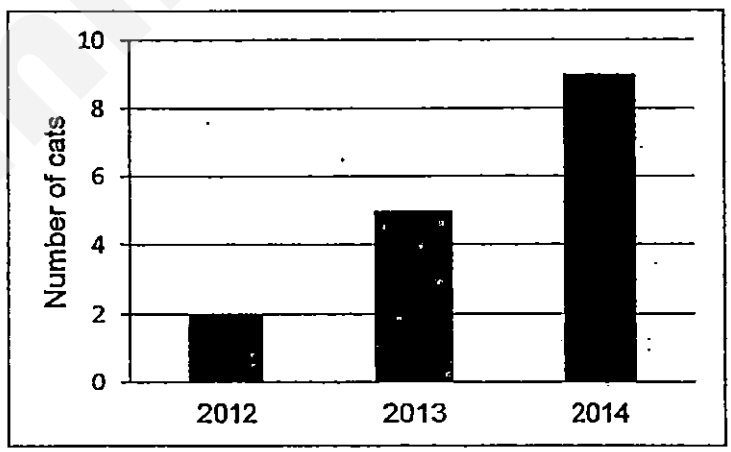
(3)



(4)



7. The graph below shows the number of cats in Jen's house over 3 years.



Jen did not bring any new cats into her home in the 3 years. Based on the graph above, it shows that living things can _____.

(1) grow

(2) reproduce

(3) move on their own

(4) respond to changes

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8. Which characteristic of plants make them different from all other living things?

(1) They can reproduce by seeds only.
(2) They are able to make their own food.
(3) They need air, water and food to survive.
(4) They can respond to changes around them.

9. Eddie came across a fern along the roadside. His sketch of it is shown below.



Fern

In which of the following groups can the fern be placed in?

K: Bears fruits
L: Makes own food
M: Grows from spores
N: Has brown spots on the underside of its leaves

(1) K and M
(2) K, L and N
(3) L, M and N
(4) All of the above

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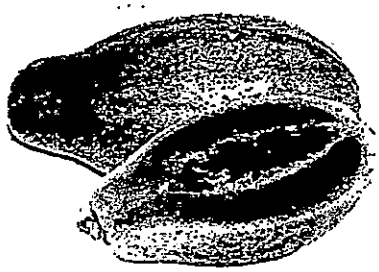
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10. A group of students saw a fruit in their school garden. Their observations of the fruit is listed below:

It is hairy. It has many seeds. It is round in shape.

Which of the following fruits were the students describing?

(1) 

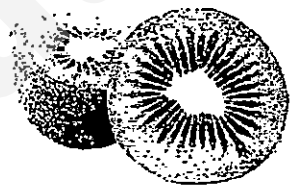
Papaya

(2) 

Lychee

(3) 

Avocado

(4) 

Kiwi

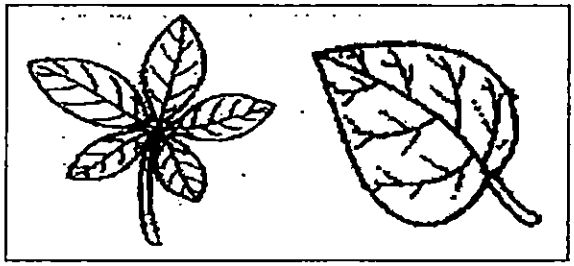
11. The table below shows Derrick's observation on four types of plants A, B, C and D. A tick (✓) indicates that the plant part was observed. Which of the following plant is most likely to be a moss?

	Plant	Presence of flowers	Presence of fruits
(1)	A	✓	✓
(2)	B		✓
(3)	C		
(4)	D	✓	

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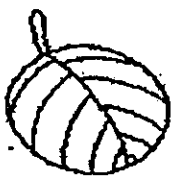
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12. Wei Jiang classified the leaves below according to a similar characteristic.



Which of the following leaves could Wei Jiang classify with the above leaves?

(1)



(2)



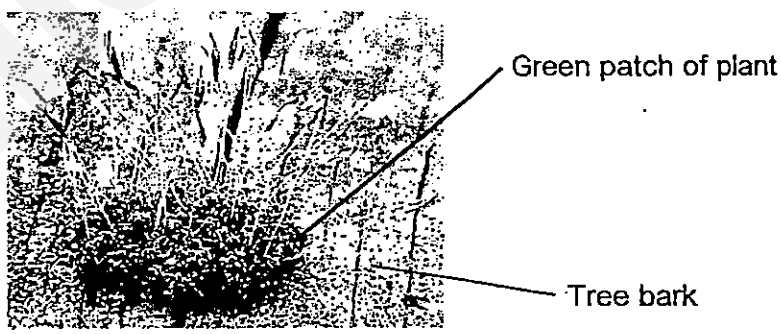
(3)



(4)



13. A group of students came across a green patch of plant growing on a tree bark. They have researched that the plant does not produce any flowers.



Which of the following statements made by the students is **incorrect**?

(1) It makes its own food.

(2) It needs air, food and water to survive.

(3) It can move from place to place by itself.

(4) It responds to the changes around its surrounding.

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14. Which one of the following statements is true about all mammals?

(1) They live on land only.
(2) They have a hard outer covering.
(3) They have a constant body temperature.
(4) They reproduce by giving birth to their young.

15. Which of the following statements are true about penguins?



Penguins

A They can swim.
B They are covered with fur.
C They reproduce by laying eggs.

(1) A and B only
(2) A and C only
(3) B and C only
(4) A, B and C

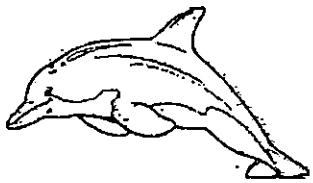
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16. Which of the following animals is **not** a fish?

(1)



Dolphin

(2)



Grouper

(3)



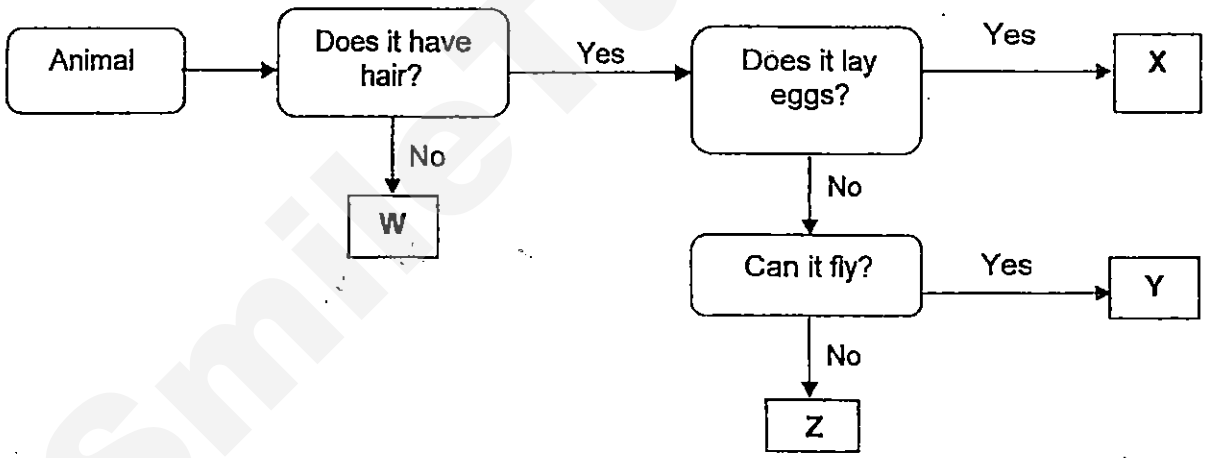
Sardine

(4)



Mudskipper

17. Study the flowchart below carefully.



Which group (W, X, Y or Z) does **Elephant** and **Platypus** belong to in the above flow chart?

	Elephant	Platypus
(1)	W	X
(2)	W	Y
(3)	Z	W
(4)	Z	X

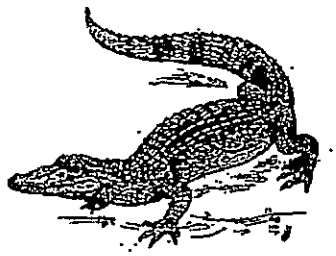
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18. The diagrams below show a salamander and a crocodile.



Salamander



Crocodile

How is the salamander different from the crocodile?

A The salamander lays eggs.

B The salamander has moist skin.

C The salamander can only live on land.

(1) B only

(2) A and C only

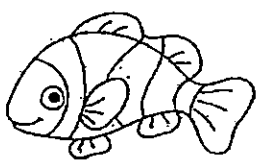
(3) B and C only

(4) A, B and C

19. The diagrams below show a frog and a clown fish.



Frog



Clown fish

Which of the following is a characteristic of both animals?

(1) They live on land and in water.

(2) They reproduce by laying eggs.

(3) They breathe through their gills.

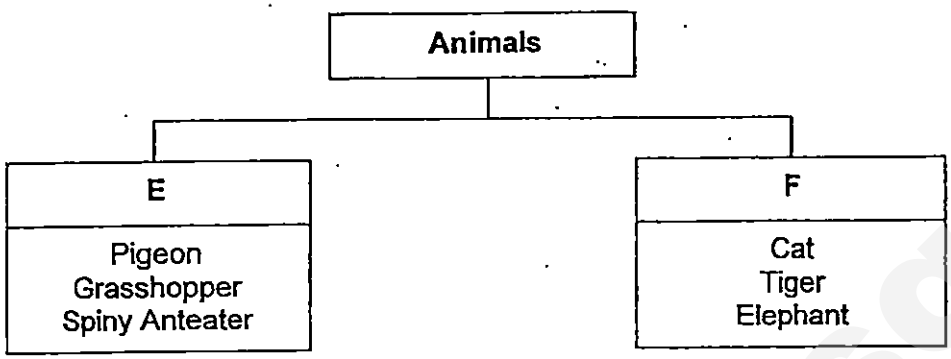
(4) They have scales as their outer coverings.

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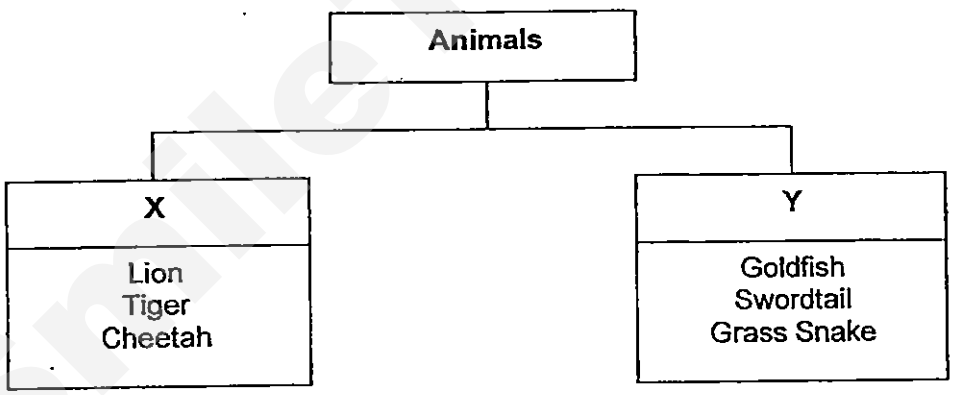
20. Some animals are classified into two groups as shown below.



These animals are classified according to _____.

(1) where they live
(2) how they breathe
(3) their outer covering
(4) how they reproduce

21. Some animals are classified into two groups as shown below.



Which of the following is correct?

	X	Y
(1)	Mammals	Fish
(2)	Live on land only	Live in water only
(3)	Animals with hair	Animals with scales
(4)	Animals that lay eggs	Animals that give birth to young

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22. The table below shows the characteristics of four animals, A, B, C and D. A tick (✓) indicates the presence of the characteristic.

Animal	Number of legs				Feelers	Wings	Lay eggs
	2	4	6	8			
A	✓					✓	✓
B		✓					
C			✓		✓	✓	✓
D				✓			✓

Which animals, A, B, C or D, could be the butterfly and parrot?

	Butterfly	Parrot
(1)	A	C
(2)	B	D
(3)	C	A
(4)	D	B

23. Which of the following is **not** an insect?

(1)



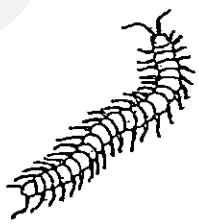
Ant

(2)



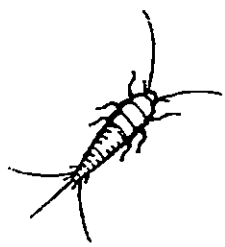
Beetle

(3)



Centipede

(4)

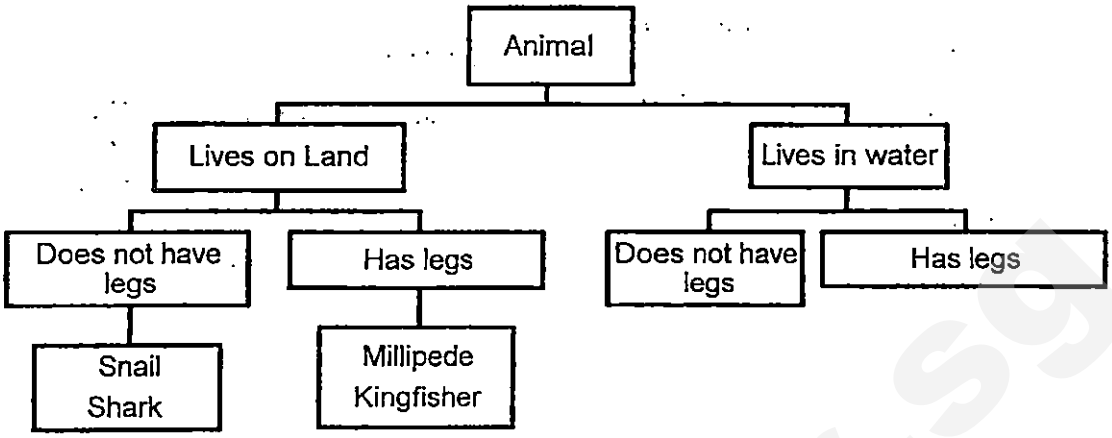


Silverfish

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24 Study the classification chart below.



Which animal in the above classification chart is classified **incorrectly**?

(1) Snail
(2) Shark
(3) Millipede
(4) Kingfisher

25. Jack has grouped four animals into one group based on their breathing method. Which of the following animals **does not** belong to the group?

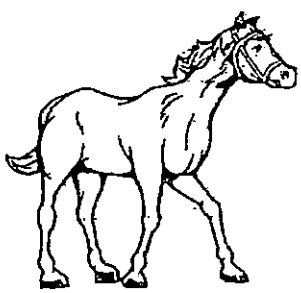
(1)



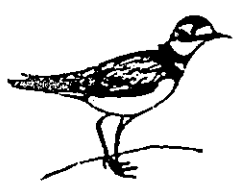
(2)



(3)



(4)



End of Booklet A

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ANGLO-CHINESE SCHOOL
(JUNIOR)

SEMESTRAL ASSESSMENT 1 (2015)
PRIMARY 3

SCIENCE

BOOKLET B

Friday **8 May 2015** **1 hour 30 minutes**

Name : _____ ( )

Class : P3 _____

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 14 questions in this booklet.

Answer **ALL** questions.

INFORMATION FOR PUPILS

The number of marks is given in brackets [ ] at the end of each question or part question.

The total marks for this booklet is 40.

The total time for Booklets A and B is 1 hour 30 minutes.

This question paper consists of 14 printed pages (inclusive of cover page).

BOOKLET A	**/ 50**
BOOKLET B	**/ 40**
TOTAL	**/ 90**
Parent's signature/ Date:	

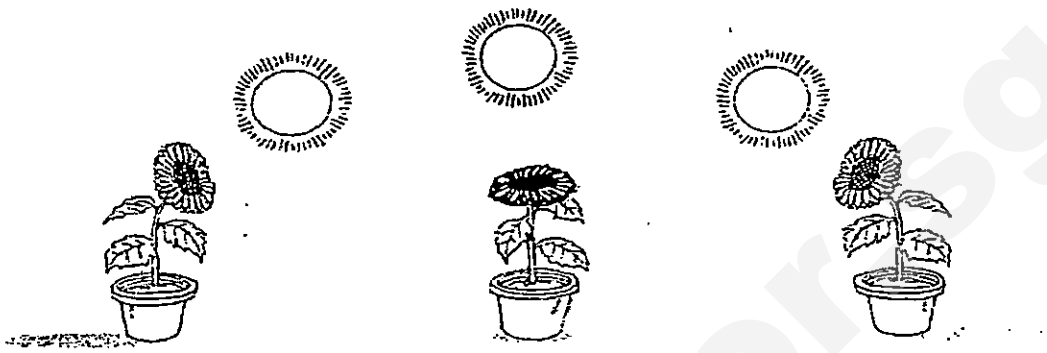
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Booklet B (40 marks)

For questions 26 to 32, write your answers in this booklet.
The number of marks available is shown in brackets [ ] at the end of each question or part question.

26. The diagrams below show a sunflower plant at different times of the day.

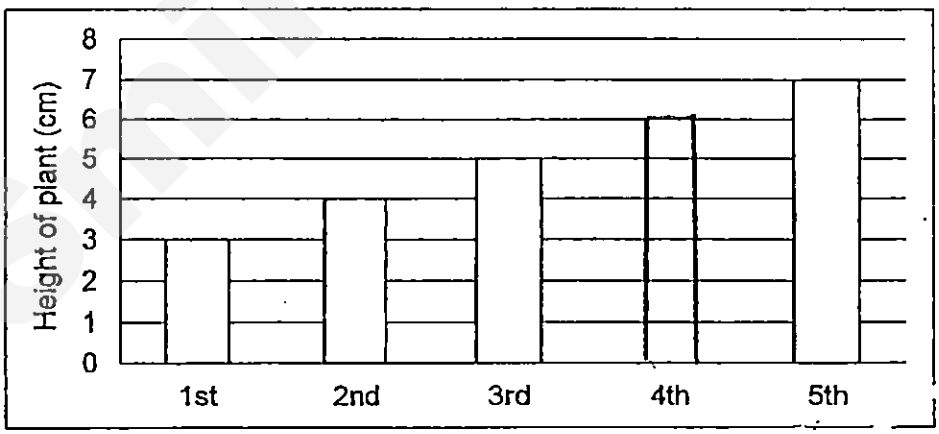


Based on your observation, state two characteristics of living things that the sunflower plant displays at different times of the day. [2]

Observation 1: _____

Observation 2: _____

27. (a) The graph below shows the height of a balsam plant over 5 months. Complete the graph below to show the plant's height at the 4th month. [1]



(b) Based on the graph above, state the characteristic of the living thing shown. [1]

_____

(c) As the balsam plant grows into an adult plant, it needs to [1]

_____ so that its kind will continue to exist.

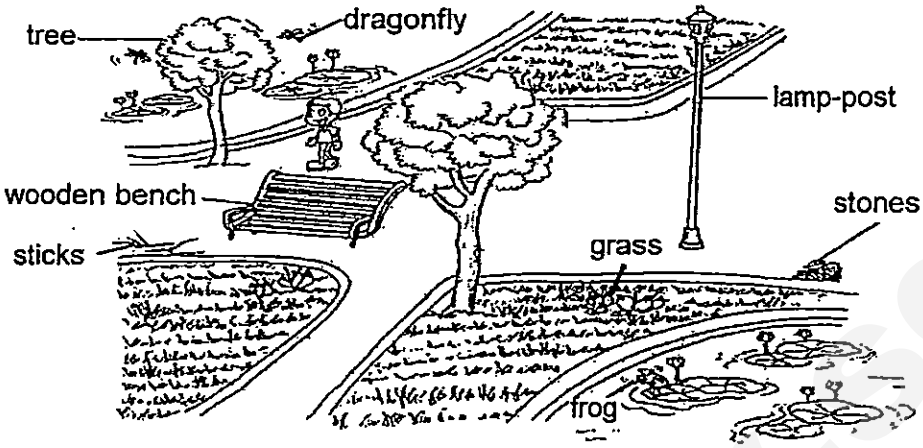
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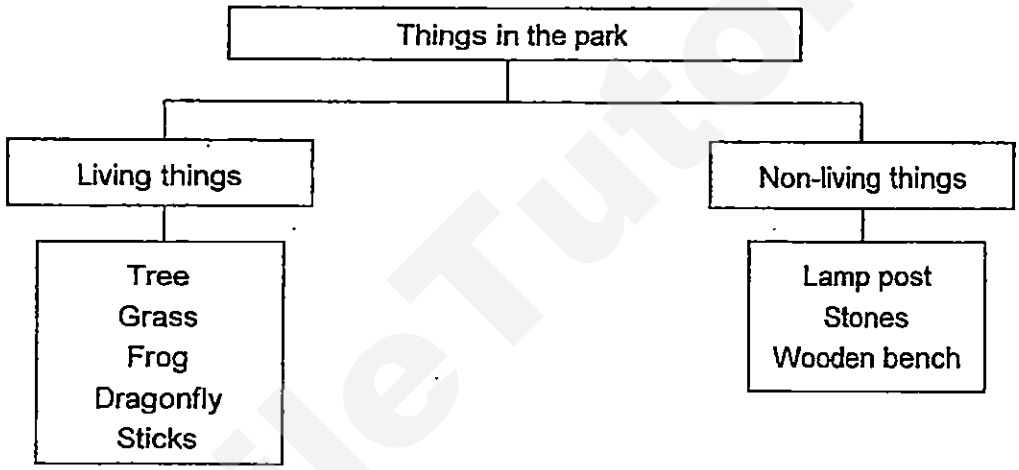
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28. Study the picture and classification chart below.



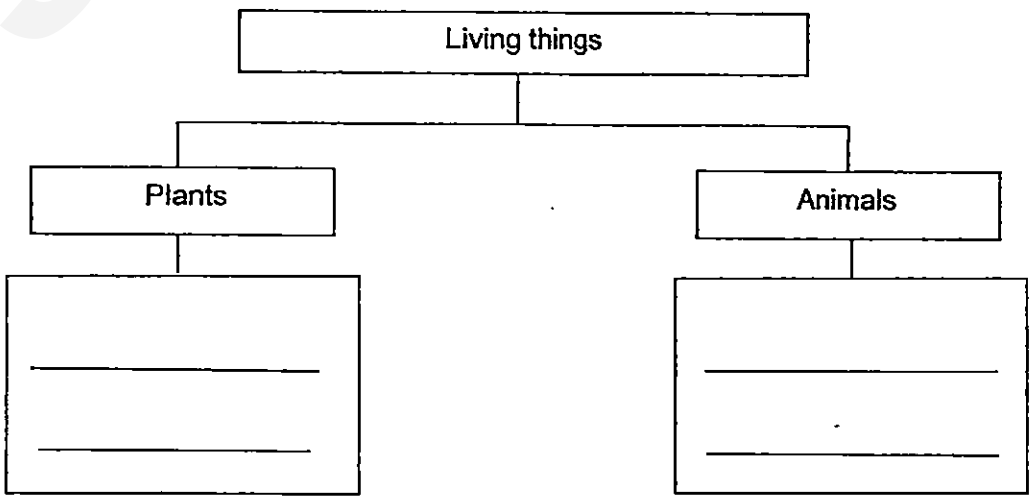
The classification chart of the living things and non-living things based on the picture is as follows:



(a) Based on the classification chart above, which item is **incorrectly** classified? [1]
Explain your answer.

_____

(b) The living things can be further classified in the chart below. Fill in the blanks [2]
with the most suitable answers.



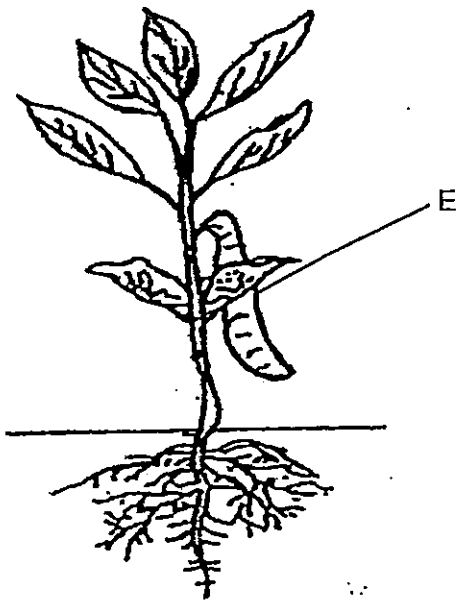
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29. Jared has grown a string bean plant and a morning glory plant in his garden.



String bean plant



Morning glory plant

(a) Name the plant part labelled Part E: _____ [1]

(b) He realized that the string bean does not have flowers while the morning glory plant has flowers. Is the string bean plant a non-flowering plant? Explain your answer. [1]

_____

_____

_____

(c) State the difference between the stems of the two plants. [1]

_____

_____

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SCORE / 2

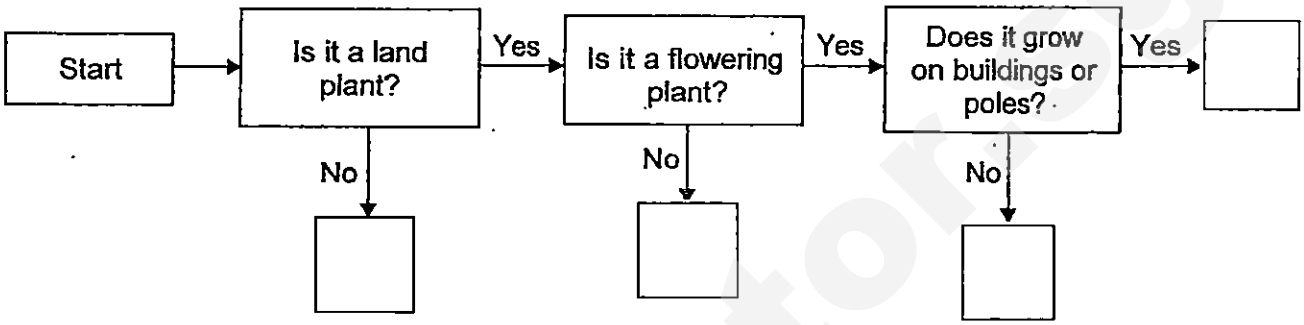
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30. The table below gives information on four plants W, X, Y and Z. A tick (✓) indicates that the plant has that characteristic.

Characteristics	W	X	Y	Z
Has flowers	✓	✓		✓
Grows on land		✓	✓	✓
Has a strong stem	✓	✓	✓	

(a) Using the information above, write the letters W, X, Y and Z in the correct boxes in the flowchart below. [2]



(b) Study the picture below.



Which plant, W, X, Y or Z, best matches the above plant in the diagram?

[1]

_____

(Go on to the next page)

SCORE	
	3

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31. Study the pictures of two plants given below.



Water lily plant



Orchid plant

(a) How are the plants alike? (Do not mention size and colour) [1]

_____

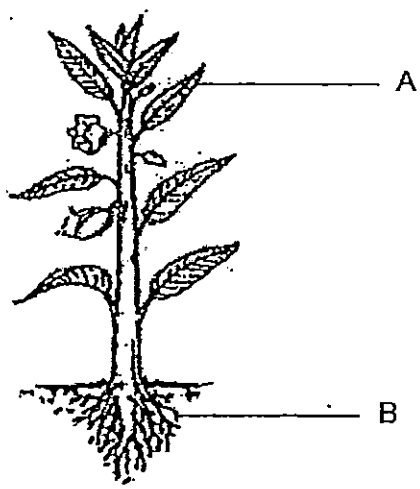
_____

(b) How are the plants different? (Do not mention size and colour) [1]

_____

_____

(c) Study the diagram of the balsam plant below. [1]



Name parts A and B.

A: _____

B: _____

(Go on to the next page)

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32. Sam wanted to find out if plants need water to grow. Two similar plants, Plant P and Plant Q were placed in different locations, one near the window and another in an air-tight container. He watered Plant Q only.

Placed at window	Placed in an air-tight container
	
Plant P	Plant Q

(a) After a week, both plants withered and died. His teacher said that his experiment was not fair. What can he do to the set-ups to make it a fair test? [1]

_____

_____

(b) Besides water, what else do plants need to grow and survive? [1]

_____

_____

(c) Sam wants to find out if plants need sunlight to survive. Which of the following should be the changed variable for his experiment? Tick (✓) the variable that he should change. [1]

Variable	Tick (✓) the changed variable
Location of the plants	
Water given to the plants	
Type and size of the plants	
Amount of soil for the plants	

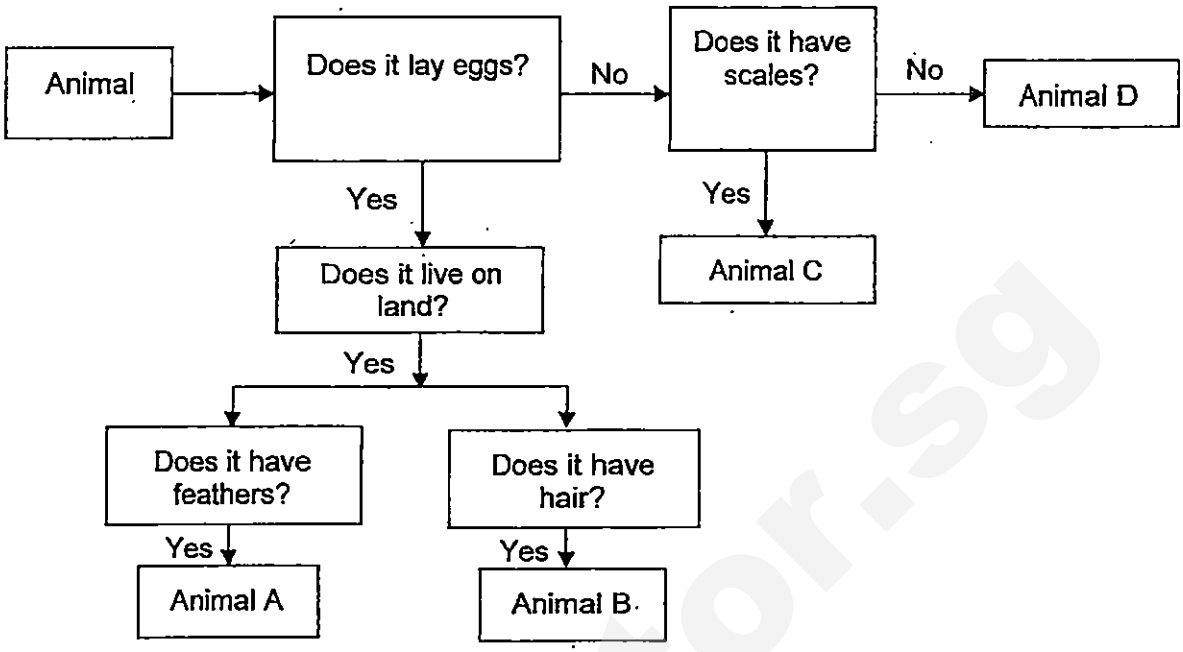
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33. Study the flowchart shown below.



(a) Which of the following animals best match Animals A, B, C and D? [2]

Eagle	Guppy	Whale	Spiny Anteater

(i) Animal A: _____

(ii) Animal B: _____

(iii) Animal C: _____

(iv) Animal D: _____

(b) State all the characteristics of Animal B. [1]

_____

_____

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34. The picture below shows a termite.



Termite

(a) Which group of animals does the termite belong to? [1]

_____

(b) List two special characteristics of the termite that makes it belong to the group you have stated in (a). [1]

_____

_____

_____

(c) List two functions of this animal's outer covering. [1]

(i) _____

(ii) _____

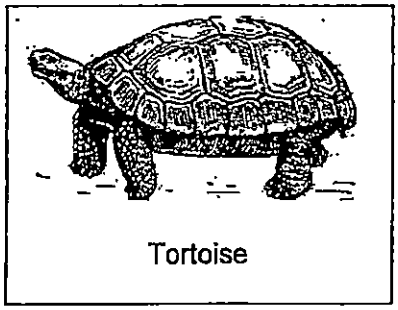
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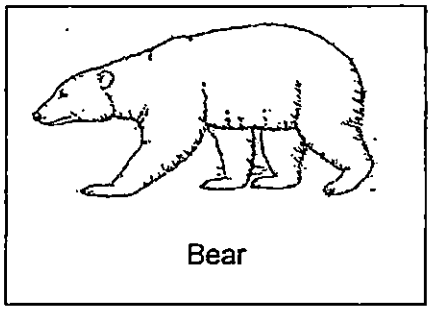
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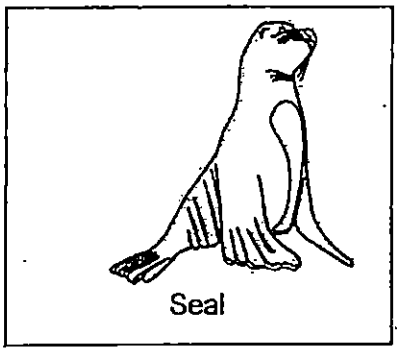
35. Study the pictures of four animals below.



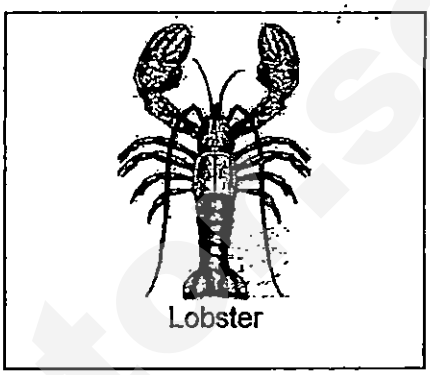
Tortoise



Bear



Seal



Lobster

(a) Classify the above animals by writing '**Tortoise**', '**Bear**', '**Seal**' and '**Lobster**' in the correct box. [2]

Have Fur	Have Shell

(b) Name another way of classifying the four animals such that there are two animals in each group. [1]

_____

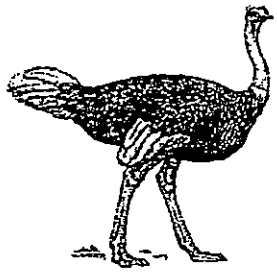
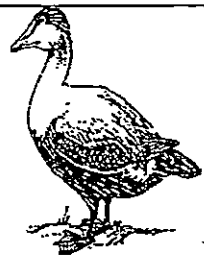
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	3

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36. Study the two birds shown below.

Ostrich	Duck
	

(a) State one common characteristic between the two birds. [1]
(Do not mention size and colour)

_____

_____

(b) State two differences between the two birds. [2]
(Do not compare size and colour)

_____

_____

_____

_____

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37. Look at the three living things shown below.



Rat



Bed Bug



Bat

Three pupils were asked to choose the odd one out and state a reason for their choice. The table shows their answers.

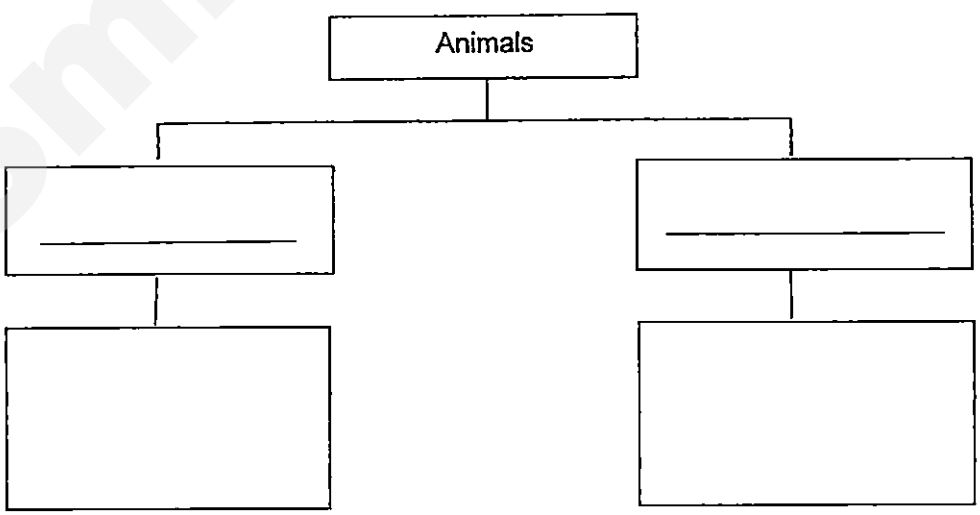
Pupil	Answer
Alice	Rat. It has a very long tail but the rest don't.
Ben	Bed Bug. It has 3 pairs of legs but the rest don't.
Carl	Bat. It is the only animal that suckles its young.

(a) Who has given the **incorrect** answer? Explain your answer. [1]

_____

_____

(b) Classify the three animals into two groups and give a suitable heading for each group. (Do not classify based on any of the three pupils' answers.) [2]



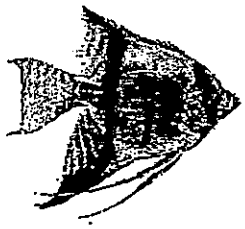
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SCORE	

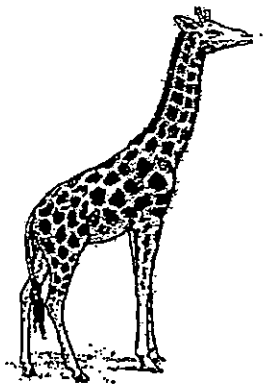
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38. Study the pictures below.



Angelfish



Giraffe

Compare the two animals based on the characteristics stated. [3]

Animal	**Angelfish**	**Giraffe**
Outer Covering		
Movement		
How they breathe		

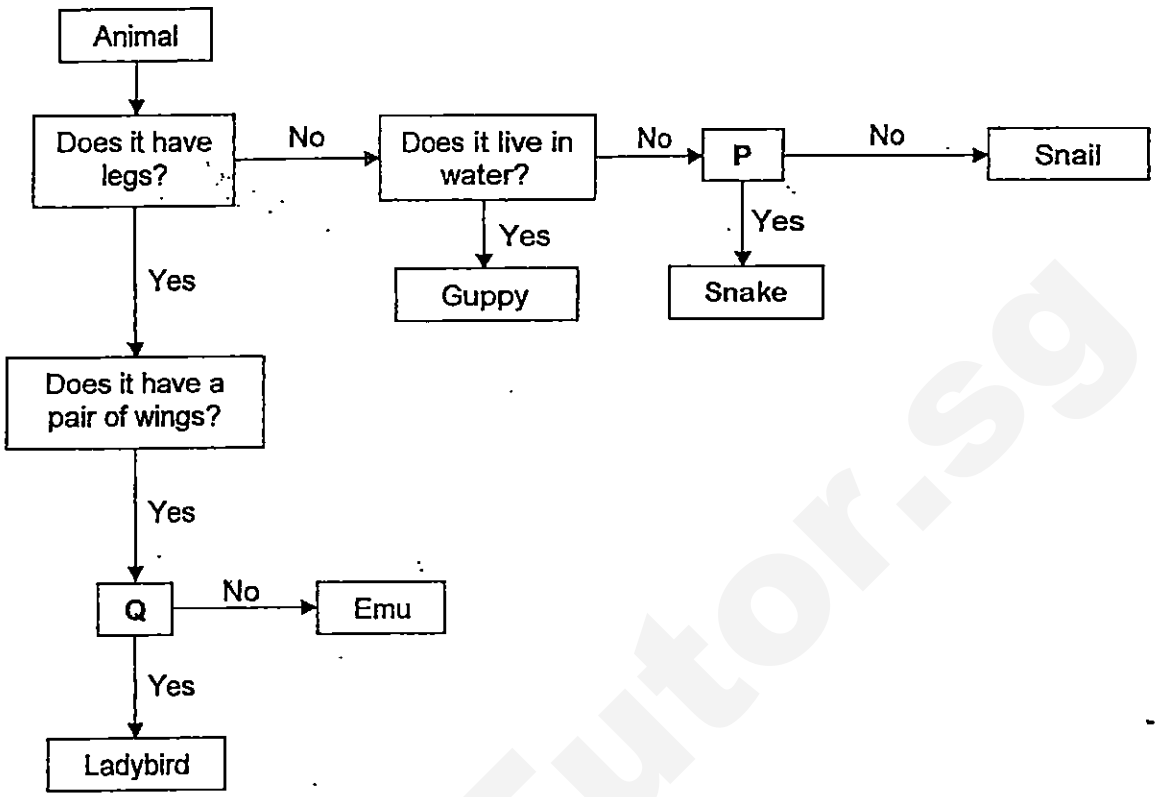
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SCORE	/ 3

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39. Study the flowchart below.



(a) The letters P and Q represent questions that are used to classify animals in the flowchart above. Write the letters; P and Q, in the box given below to represent the questions in the flow chart. Each letter can only be used once. [1]

Question	Letter
Can it fly?	
Does it lay eggs?	
Does it have scales?	
Does it have feathers?	

(b) Give an example of an animal which has all the same characteristics as the ladybird in the flowchart above. [1]

_____

End of Paper

SCORE	/ 2

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : ANGLO CHINESE SCHOOL (JUNIOR)
SUBJECT : SCIENCE
TERM : SA1

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
1	**3**	**2**	**4**	**3**	**4**	**2**	**2**	**3**	**4**
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
3	**1**	**3**	**3**	**2**	**1**	**4**	**1**	**2**	**4**
Q 21	Q22	Q23	Q24	Q25					
3	**3**	**3**	**2**	**2**					

Q26. Observation 1 : Living things respond to changes.

Q26. Observation 2: Livings things can move by itself.

Q27a. draw at 4th month , 6cm Q27b. Living things can grow. Q27c. reproduce

Q28a. The sticks. The sticks are non-living things.

Q28b. Plants – grass Animals – dragonfly / frog Q29a. Fruit

Q29b. No. The string bean could be a seasonal plant but the morning glory is a non – seasonal plant.

Q29c. The string bean plant has a strong stem but the morning glory has weak stem.

Q30a. W Y X Q30b. Plant X matches the above plant.

Q31a. They are both flowering plant.

Q31b. Water lily grows in water but the orchid grows on land.

Q31c. A: Leaf B: Roots

Q32a. He should water one plant daily and put both plants near the window.
b. Plants need oxygen to grow and survive.
Q32c. Location of the plants – the changed variable.

Q33a. (i) Eagle (ii) Spiny Anteater (iii) Guppy (iv) whale

Q33b. It lays eggs, it has hair and live on land.

Q34a. It belongs to insects.

Q34b. It has six legs and a pair of feelers.

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Q34c. (i) To protect its body. (ii) To prevent it from danger.

Q35a. Have fur – Bear, seal Have shell – tortoise , lobster

Q35b. Group them according to " have four legs", " less/more than four legs"

Q36a. They have feathers. Q36b. The ostrich has a longer neck than the duck.

Q37a. Carl. The rat also suckle their young.

Q37b. Animals – Mammals – bat , rat

Q37b. Animals – insects – beg bug.

Q38. Angelfish – scales / swim / through gills

Q38. Giraffe – hair / walk / through lungs

Q39a. Can it fly – Q Does it lay eggs – P Q39b. It is a mynah.

THE END

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CATHOLIC HIGH SCHOOL
SEMESTRAL ASSESSMENT 1
2015
PRIMARY THREE

SCIENCE

BOOKLET A

7 questions

20 marks

Total Time for Booklets A and B: 1 hour 15 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.

This booklet consists of 8 printed pages, excluding the cover page.

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Booklet A (20 × 2 marks)

For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer on the Optical Answer Sheet. (40 marks)

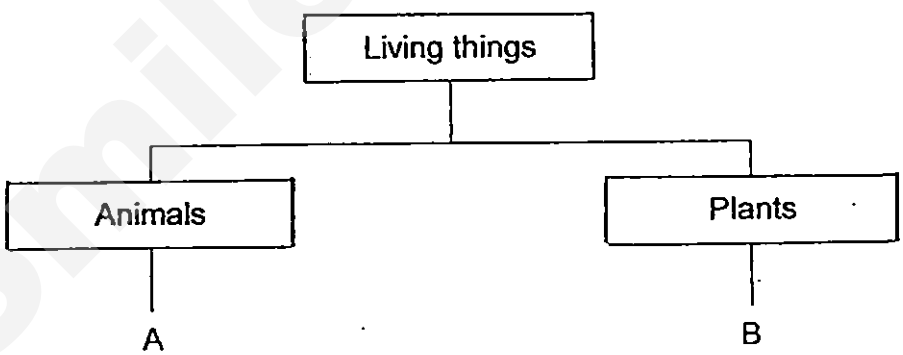
1. Which one of the following groups consists of only non-living things?

   (1) Air, plant, rain
   (2) Fan, candle, girl
   (3) Bird, grass, water
   (4) Rain, cloud, smoke

2 Which one of the following shows the characteristic of living things?

   (1) A fire getting bigger.
   (2) A hat being blown away by the wind.
   (3) A car moving slowly on the slippery road.
   (4) A mimosa plant closes its leaves when touched.

3 Study the classification chart below.



What do A and B represent?

	A	B
(1)	moss	yeast
(2)	duck	orchid
(3)	horse	toadstool
(4)	bacteria	mushroom

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4 The table below shows some information about an organism.

Week	Height (cm)
1	13
2	26
3	39

Based on the table above, what can you say about the organism?

The organism is _____.

(1) dead
(2) growing
(3) reproducing
(4) moving over a distance

5 The bird's nest fern, moss and rose are similar because they _____.

A live on land
B are non-flowering
C make their own food
D reproduce from spores

Which statements are correct?

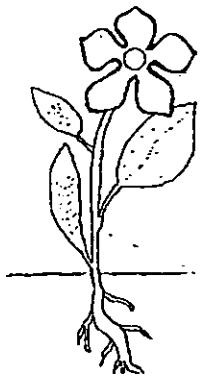
(1) A and C only
(2) B and D only
(3) A, B and C only
(4) B, C and D only

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6 Sam observed the plant below and recorded his observations in the table below.



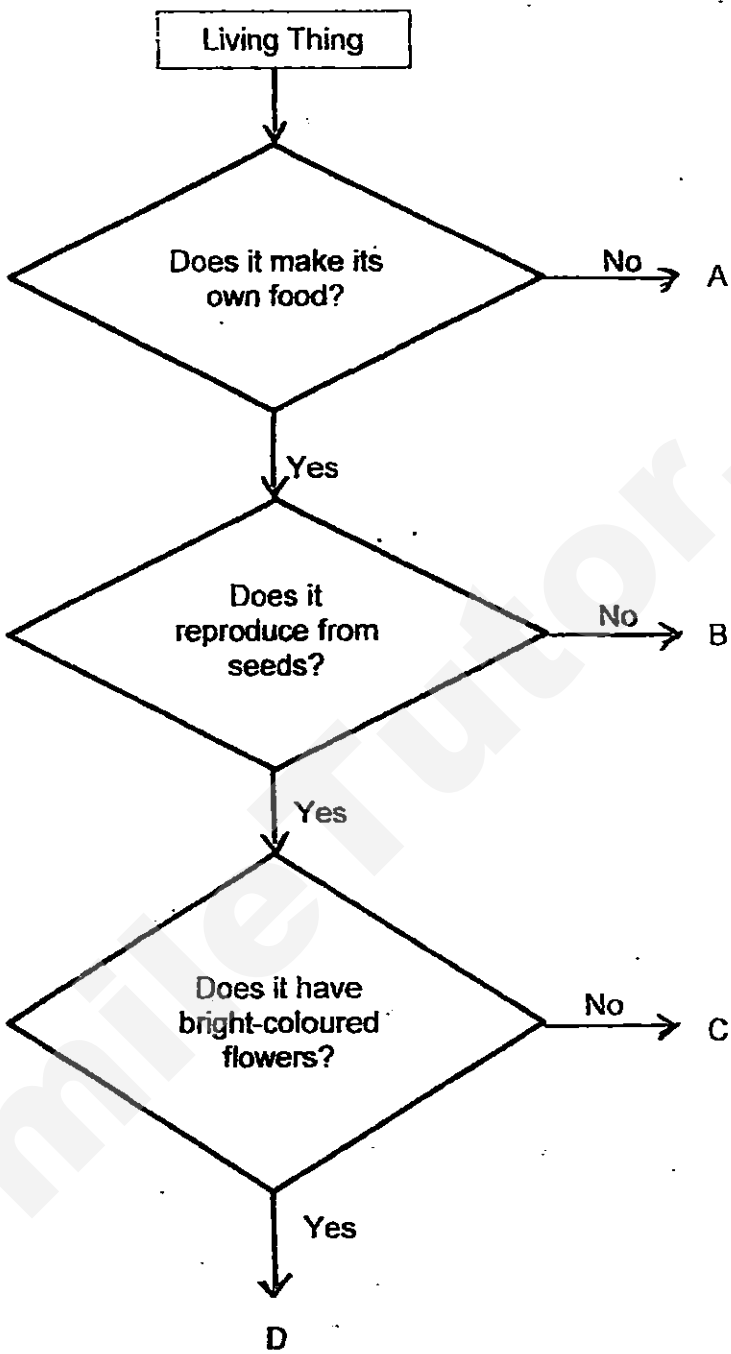
Which of the following is the correct observation that Sam made?

	Has flowers	Has fruits	Has stem	Grows on land
(1)		✓	✓	✓
(2)	✓		✓	✓
(3)	✓	✓		✓
(4)	✓	✓	✓	

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7 Study the flowchart below carefully.



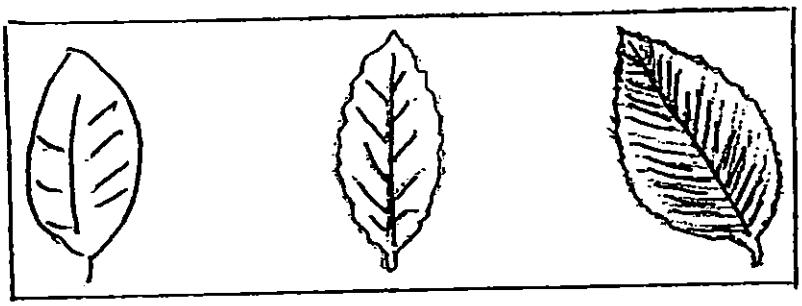
Which one of the following best represents the hibiscus?

(1) A
(2) B
(3) C
(4) D

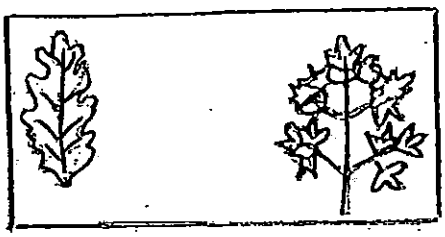
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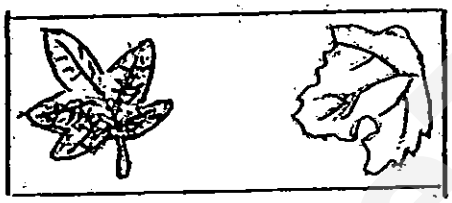
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8 Study the below carefully.



Which one of the following pair of leaves below belongs to the same type of leaves shown above?









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9 The table below shows how the four groups of animals breathe. Which one of the following is wrongly matched?

	Group	Breathe through
(1)	fish	gills
(2)	birds	dry skin
(3)	mammals	lungs
(4)	amphibians	moist skin

10 Animal X has the following characteristics.

- It produces milk for its young.
- It gives birth to its young alive.

Which one of the following is another characteristic of animal X?

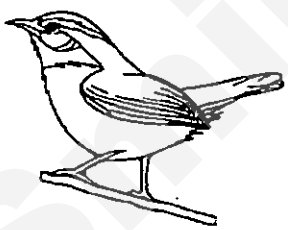
(1) It has gills.

(2) It has a beak.

(3) It has 3 body parts.

(4) It has hair on its body.

11 The pictures below show two organisms.



bird



insect

Which of the following is a common characteristic of both the bird and insect?

(1) Both lay eggs.

(2) Both have one pair of wings.

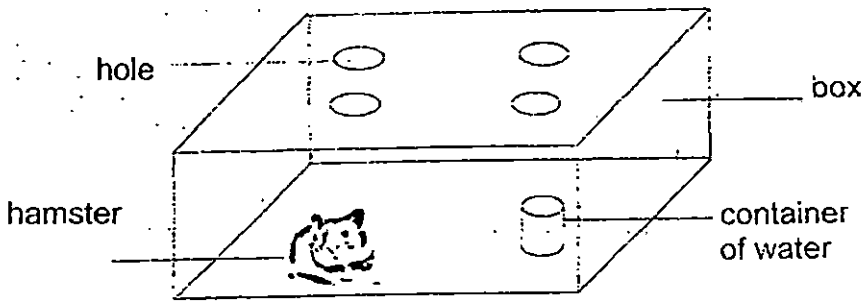
(3) Both have a hard outer covering.

(4) Both have the same number of legs.

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12 A hamster was kept in a box as shown below.



What could happen to the hamster after some time?

(1) The hamster would survive as it was given air.
(2) The hamster would survive as it was given water.
(3) The hamster would die as it did not have any food.
(4) The hamster would die as it could not receive sunlight.

13 Study the classification table below carefully.

Group P	Group Q	Group R	Group S
ant	rabbit	dolphin	bat
caterpillar	kangaroo	goldfish	eagle

How are the animals above grouped?

(1) By their sizes
(2) By the way they move
(3) By the way they reproduce
(4) By their outer body coverings

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14 The following are four statements about microorganisms.

A Yeast is an example of bacteria
B Bacteria can make their own food.
C Bacteria may be useful or harmful to humans.
D Microorganisms are so tiny that we need to use a microscope to see them.

Which of the statements are correct?

(1) A and B only
(2) B and C only
(3) C and D only
(4) A, C and D

15 Which of the following is/are necessary for bread to turn mouldy?

A water
B oxygen
C warmth

(1) A only
(2) A and C only
(3) B and C only
(4) A, B and C

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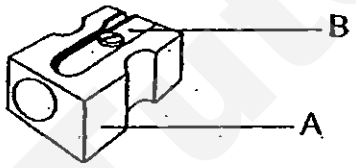
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16. Fungi need _____ to grow.

E air
F food
G water
H sunlight

(1) E, F and G only
(2) E, F and H only
(3) E, G and H only
(4) F, G and H only

17. The picture below shows a sharpener.



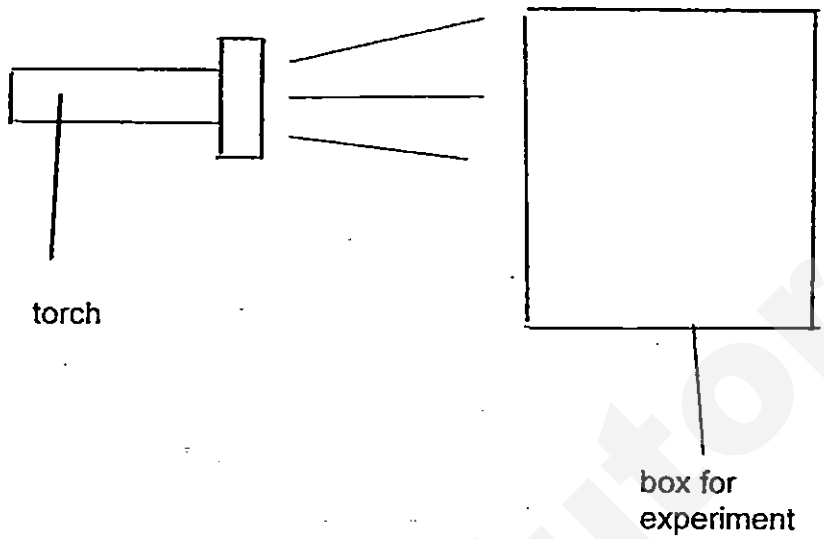
What are parts A and B made of?

	A	B
(1)	Wood	Rubber
(2)	Paper	Metal
(3)	Plastic	Metal
(4)	Rubber	Plastic

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18 Peter wants to make a box for an experiment on plants. He wants light to pass through the box so that the plant can get sunlight to grow.



Which material should Peter use to make the box?

(1) glass
(2) metal
(3) paper
(4) ceramic

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19 The table below shows 4 materials, A, B, C and D, and their properties. A tick (✓) shows the property that each material has.

Properties	Materials			
	A	B	C	D
Light	✓	✓	✓	
Flexible	✓	✓		
Waterproof		✓	✓	✓



raincoat

Which material is suitable for making a raincoat?

(1) Material A
(2) Material B
(3) Material C
(4) Material D

20 Muthu was given four different bags. He put bottled drinks, one at a time, into each bag until it began to tear. He recorded his observations in the table below.

Bags	Number of bottled drinks put in the bag before it began to tear
A	3
B	6
C	2
D	9

Based on the results in the table above, which bag is the strongest?

(1) Bag A
(2) Bag B
(3) Bag C
(4) Bag D

End of Booklet A

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CATHOLIC HIGH SCHOOL
SEMESTRAL ASSESSMENT 1
2015
PRIMARY THREE

SCIENCE

BOOKLET B

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7 questions

20 marks

Total Time for Booklets A and B: 1 hour 15 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.

This booklet consists of 8 printed pages, excluding the cover page.

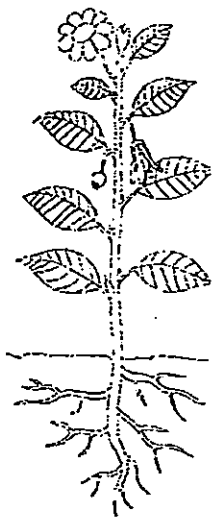
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Booklet B (20 marks)

For questions 21 to 27, write your answers in this booklet.
The number of marks available is shown in brackets [ ] at the end of each question or part question. (20 marks)

21 Look at the two plants below carefully.



Plant X



Plant Y

(a) State a difference between Plant X and Plant Y. [1]
(Do not compare shape or size.)

_____

(b) What are the three basic needs Plants X and Y need in order to survive? [1]

Both plants need _____, _____ and _____.

(Go on to the next page)

SCORE	/ 2

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22 The table below shows the characteristics of four plants, A, B, C and D. A tick (✓) shows the characteristic that each plant has.

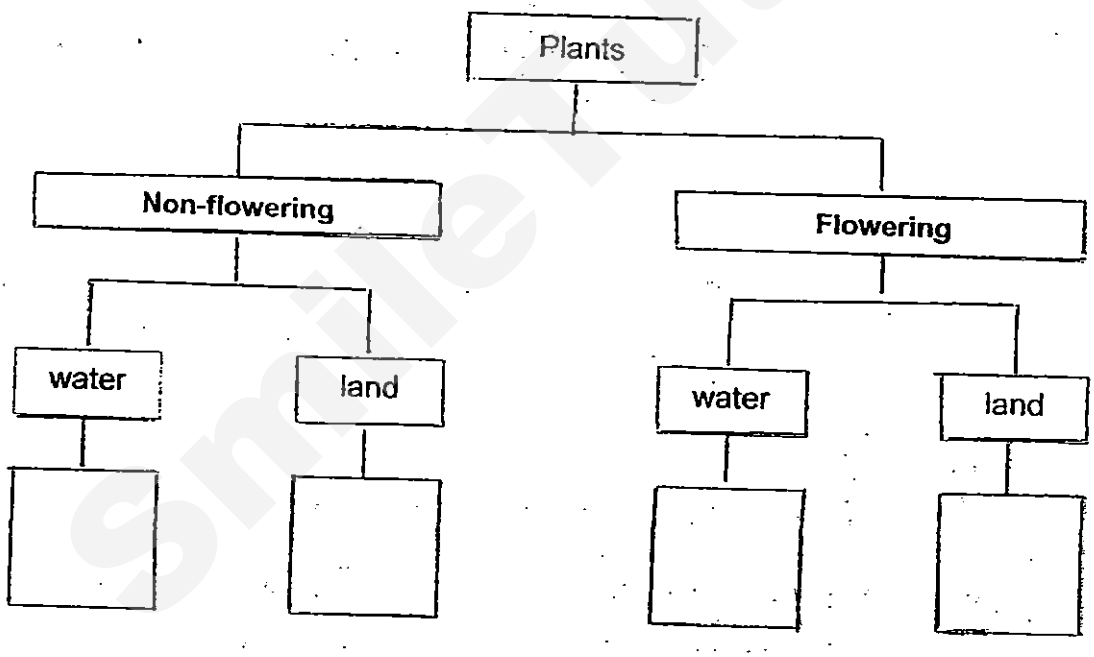
Characteristics	Plants			
	A	B	C	D
Has flowers	✓			✓
Grows in water		✓		✓

(a) Based on the information given in the table above, write down two characteristics of Plant B. [1]

(i) _____

(ii) _____

(b) Based on the table above, classify the plants (A, B, C and D) in the classification chart below. [2]



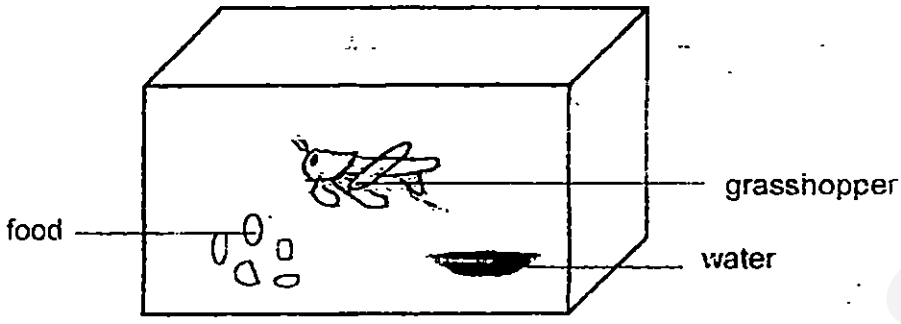
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SCORE 3

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23 Jane placed a grasshopper in an air-tight box with food and water. A few days later, the grasshopper died.



(a) Which group of animals does the grasshopper belong to? [1]

_____

(b) Why did the grasshopper die? [1]

_____

_____

(c) Without changing the box, what could Jane do to prevent the grasshopper from dying? [1]

_____

_____

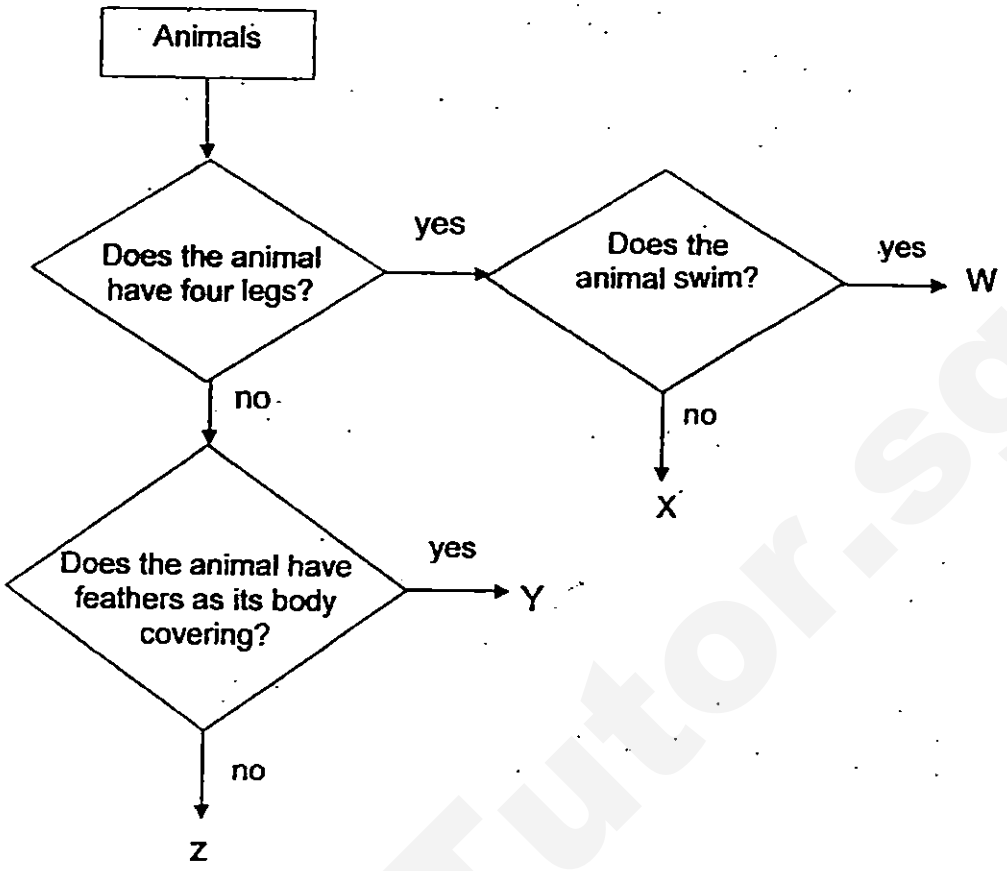
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SCORE	/ 3

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24 Study the flowchart below.



(a) Based on the flowchart above, write down the characteristics of animal W. [1]

_____

_____

(b) How is animal W different from animal Z? [1]

_____

_____

(C) Which group of animals does animals Y belong to? [1]

_____

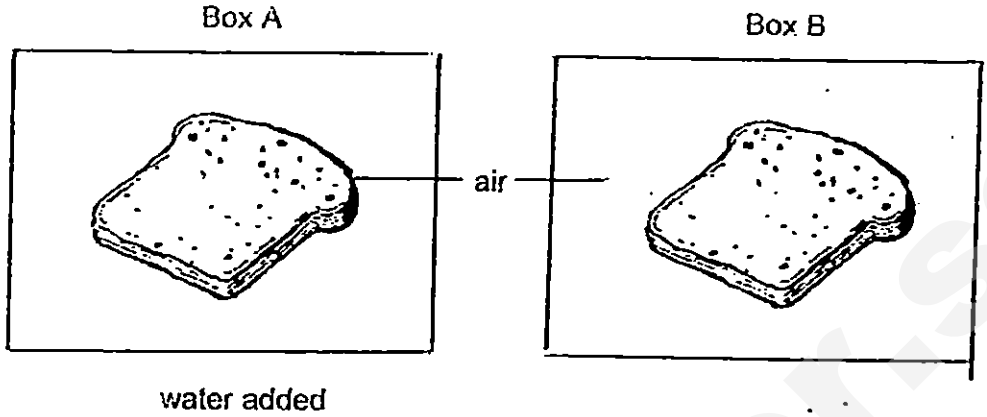
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SCORE	/ 3

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25 Amber wanted to find out if water affects the growth of mould. She placed two similar pieces of bread in two identical sealed boxes. She sprayed some water onto the bread in Box A and did not put any water on the bread in Box B. She then placed both boxes in a warm cupboard.



(a) Tick the variables that Amber has kept the same in the 2 set-ups. [2]

Variable	Tick (✓)
Type of box	
Size of bread	
Type of bread	
Presence of water	

(b) Which bread will have mould growing on it first? Explain why. [1]

_____

_____

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SCORE	/ 3

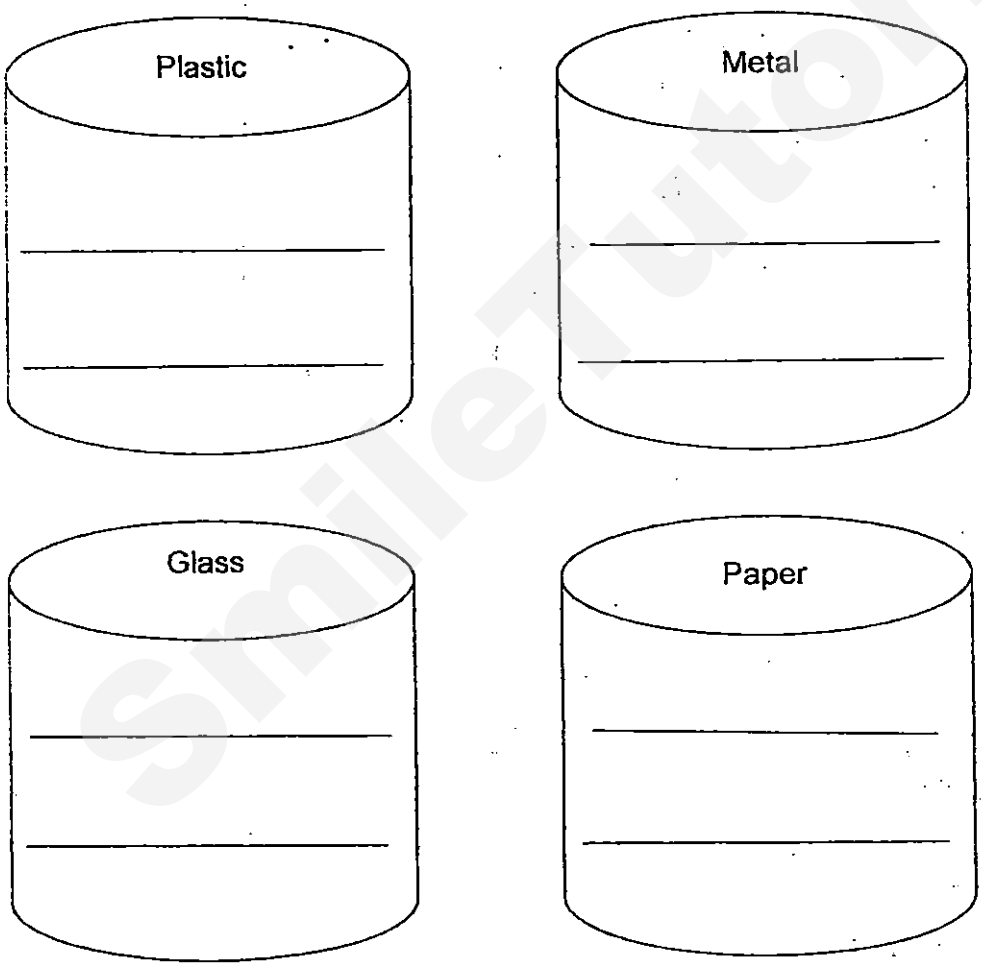
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26 Maggie's class is involved in a recycling project. The following are the objects Maggie found in the recycling bin.

book	drink can
mirror	mineral water bottle

Based on the materials the objects are made of, classify the objects under the correct materials. [2]



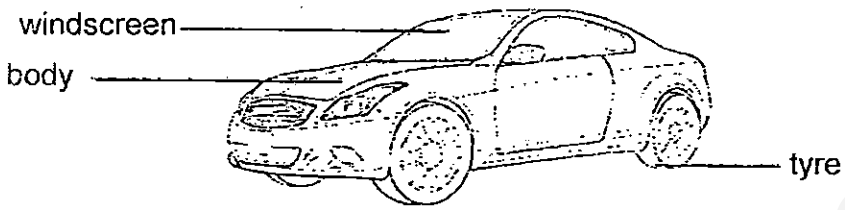
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SCORE	2

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27(a) The picture below shows a car.



Complete the table below. [3]

Part of car	Material	Property	Reason
windscreen		transparent	allows driver to see through
body	metal		will not be easily dented
tyre	rubber	flexible	

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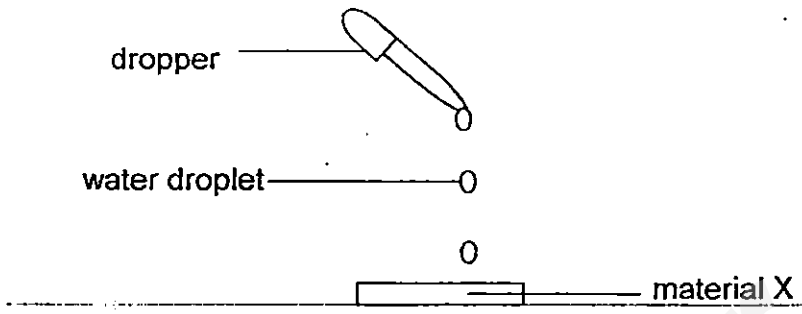
SCORE ... / 3

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Continue from Question 27(a).

(b) Ignatius carried out an experiment on 3 different materials X, Y and Z. He placed 5 drops of water using a dropper on material X as shown below.



He recorded his observations in the table below. He repeated the experiment with Materials Y and Z.

Material	Observation
X	The material absorbed water immediately.
Y	The water flowed off the sides of the material.
Z	All the water remained as water droplets on the material.

Classify the three materials X, Y and Z under the correct headings. [1]

Waterproof materials	Non-waterproof materials

SCORE	/ 1

End of Booklet B

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : CATHOLIC HIGH SCHOOL
SUBJECT : SCIENCE
TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	4	2	2	1	2	4	3	2	4
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	3	2	3	4	1	3	1	2	4

Q21a. Plant X is a flowering plant but plant Y is a non flowering plant.
Q21b. Both plants need AIR , WATER and FOOD.

Q22ai) It does not bear flower. Q22aii) It grows in water.
Q22b. Non –flowering – water → B , Land → C
Q22b. Flowering – water → D, Land → A

Q23a. It belongs to the group insects.
Q23b. It had food and water but did not have air to breath to survive.
Q23c. She could have made holes on the box to let air come into the box to let the grasshopper breathe in air so it could have survived.

Q24a. It has four legs and swims.
Q24b. Animal W has four legs but animal Z does not have four legs.
Q24c. Animal Y is a bird.

Q25a. Type of box ✔ Size of bread ✔ Type of bread ✔
Q25b. The bread in box A will have mould growing on it first. Bread mould grows best in the presence of water while the bread in box A was sprayed with water but the bread had no water sprayed on it.

Q26. Plastic – mineral water bottle
Q26. Metal – Drink can
Q26. Glass – Mirror
Q26. Paper – book

Q27a.

Part of car	Material	Property	Reason
Windscreen	glass	transparent	Allows driver to see through
Body	metal	strong	Will not be easily dented
tyre	rubber	Flexible	Can be bent easily

Q27b. Waterproof materials – Y – The water flowed off the sides of the material.
Q27b. Non –waterproof materials – Z – All the water remained as water droplets on the material.

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Name: _____ ( )

Class: Primary 3 _____

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Primary 3
Semestral Assessment 1 –2015
SCIENCE

BOOKLET A

14 May 2015

Total Time for Booklets A and B: 1 hour 15 minutes

15 questions
30 marks

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

This booklet consists of 14 printed pages.

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SECTION A (MULTIPLE-CHOICE QUESTIONS) [15 x 2 marks = 30 marks]

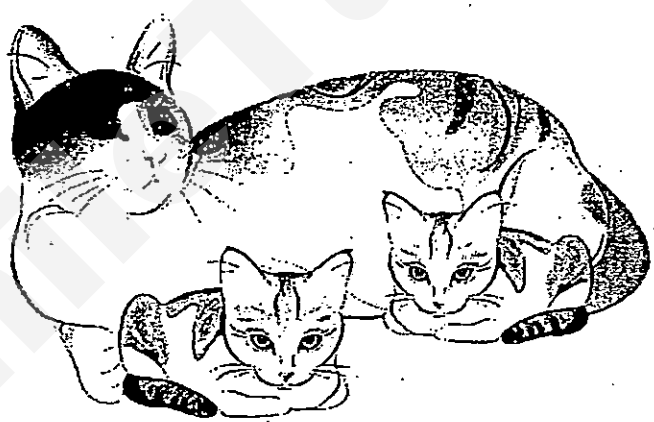
For each question from 1 to 15, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). **Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS) provided.**

---

1. Which one of the following is classified **correctly**?

	Living Things	Non-Living Things
(1)	Feather	Car
(2)	Robot	Baby Doll
(3)	Music	Eraser
(4)	Grass	Water

2. The diagram below shows a mother cat and her kittens.



Based on what is **observable** in the above diagram, which one of the characteristic of living things is shown?

(1) Living things can grow.

(2) Living things can reproduce.

(3) Living things can move around freely.

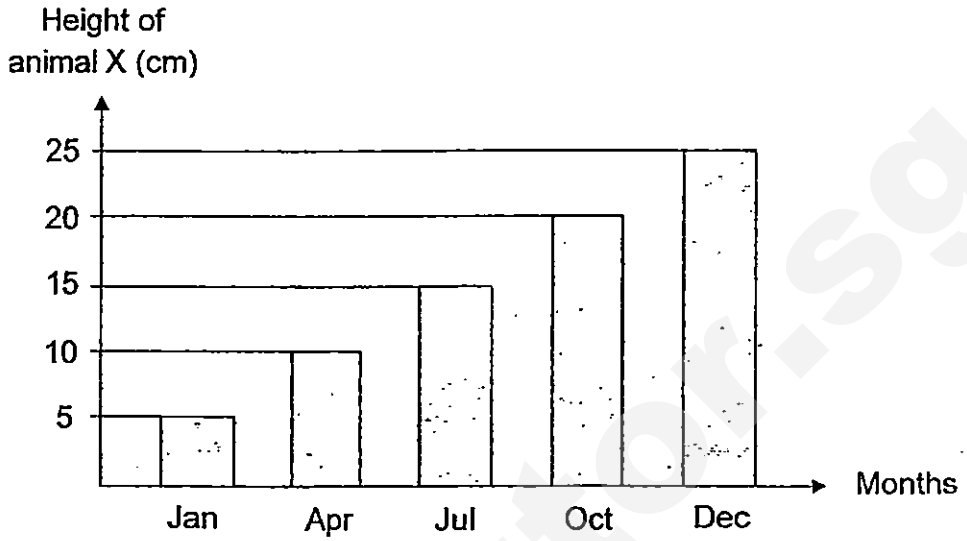
(4) Living things can respond to changes around them.

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3. The graph below shows the height of animal X over 12 months.



Based on the graph above, which one of the following statements is most likely true?

(1) Animal X grew taller every month.

(2) Animal X reproduced during the 12 months.

(3) The width of animal X grew wider every 3 months.

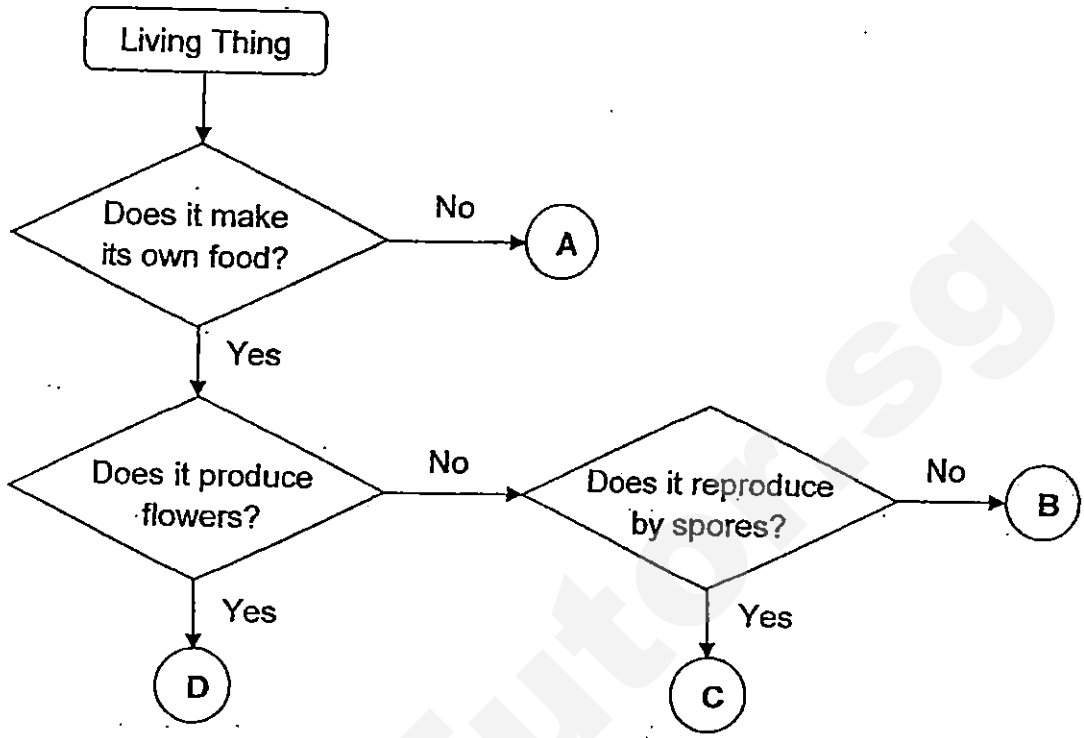
(4) The increase in height of animal X is the same every 3 months.

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4. Study the flowchart below.



Based on the above flowchart, which one of the following best represents a Bird's Nest Fern?

(1) A

(2) B

(3) C

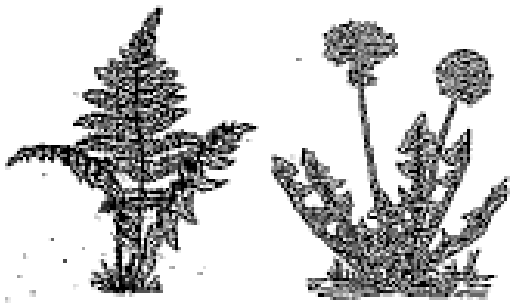
(4) D

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5. The diagram below shows two living things.



Ladder's Fern Dandelion Plant

Which of the following statements are true for both the living things shown above?

A Both can grow.

B Both reproduce by spores.

C Both can make their own food.

D Both are able to respond to stimuli.

(1) A and C only

(2) B and D only

(3) A, C and D only

(4) A, B, C and D

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6. The diagram below shows two plants, X and Y.



Plant X



Plant Y

Three pupils, Ahmad, Bryan and Clara, made some statements about the two plants as shown below.

Ahmad	Both plants can bear fruits.
Bryan	Both plants produce fruits with many seeds.
Cindy	Both plants need light in order to make food.

Which of the above pupil(s) has / have made the correct statement(s)?

(1) Bryan only

(2) Ahmad and Bryan only

(3) Ahmad and Cindy only

(4) Ahmad, Bryan and Cindy

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7. Tom had to classify the four animals given below.



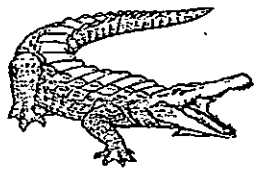
Pigeon



Owl

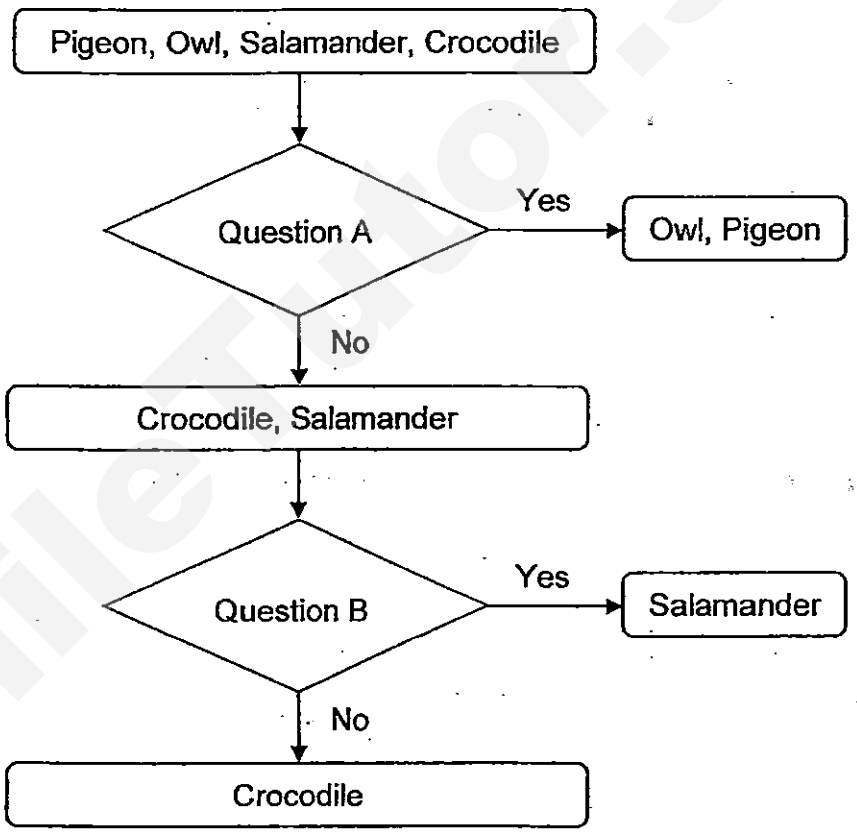


Salamander



Crocodile

He classified them with the help of the chart below.



Which one of the following best represents questions A and B?

	Question A	Question B
(1)	Do they have feathers?	Do they lay eggs?
(2)	Do they have wings?	Do they lay eggs?
(3)	Do they have feathers?	Do they have scales?
(4)	Do they have wings?	Do they have moist skin?

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8. Which one of the following statements correctly states the similarity between amphibians and reptiles?

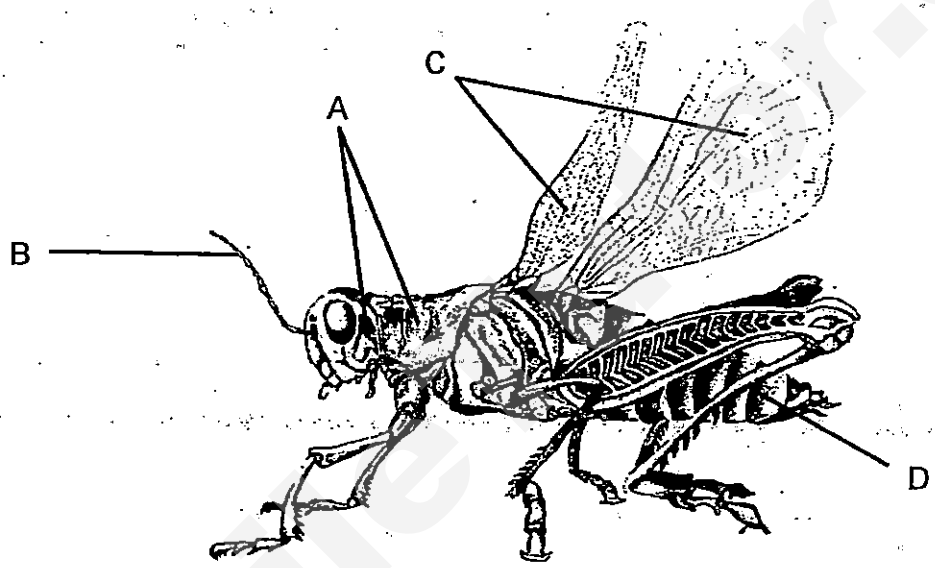
(1) Both amphibians and reptiles lay eggs.

(2) All amphibians and reptiles have moist skin.

(3) All amphibians and reptiles have 3 pairs of legs.

(4) Both amphibians and reptiles breathe through lungs only.

9. The diagram below shows a grasshopper.



Which of the above parts protects the grasshopper's soft body and give it, its shape?

(1) A and B only

(2) A and D only

(3) B and C only

(4) C and D only

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10. Which of the following statements are true of most mammals?

A They cannot fly.

B They can only live on land.

C They breathe through lungs.

D They have hair or fur as their body covering.

(1) A and B only

(2) C and D only

(3) A, B and C only

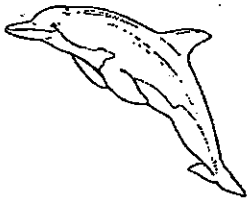
(4) B, C and D only

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11. Study the classification table below.

Group A	Group B
 Salmon	 Bat
 Dolphin	 Sparrow

Which one of the following headings best represents Group A and Group B?

	Group A	Group B
(1)	Fish	Bird
(2)	Cannot fly	Can fly
(3)	Has scales	Has feathers
(4)	Breathes through gills	Breathes through lungs

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12. Which of the following statements about fungi and bacteria are **incorrect**?

A All fungi and bacteria feed only on dead matter.

B Some fungi and bacteria are useful to humans.

C Both fungi and bacteria come only in one type of shape.

D All fungi and bacteria can only be clearly seen under a microscope.

(1) A and B only

(2) C and D only

(3) A, B and C only

(4) A, C and D only

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13. The diagram below shows two plants.



Plant X



Plant Y

Based only on what is **observable** in the diagram above, how is plant X similar to plant Y?

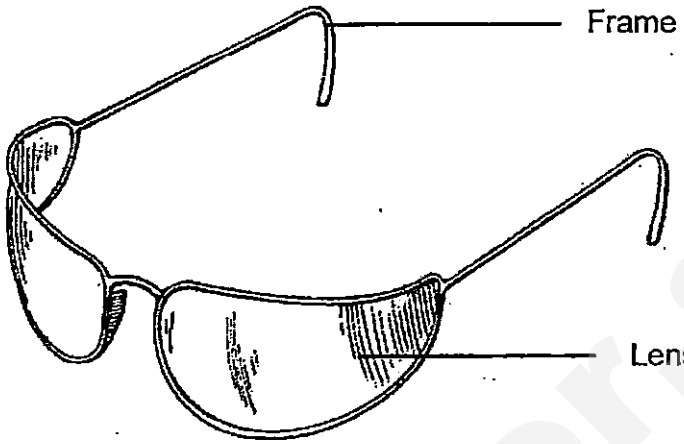
A Both have fruits.
B Both have stems.
C Both have leaves.
D Both have flowers.

(1) A and D only
(2) B and C only
(3) B, C and D only
(4) A, B, C and D

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14. Fauzi wants to make the lens of a pair of spectacles.



Which of the following properties must be considered when he wants to make the **lens** as shown above?

A Flexible
B Strength
C Waterproof
D Transparency

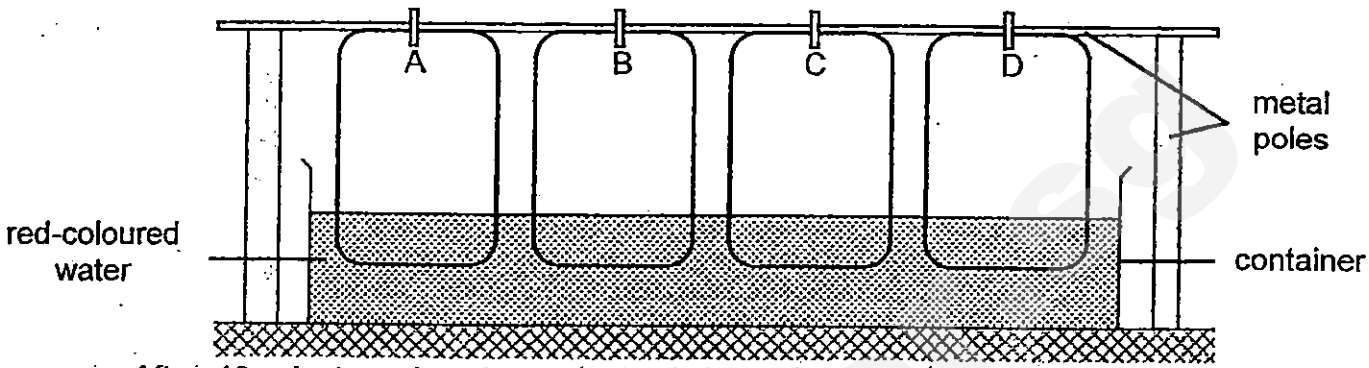
(1) A and D only
(2) B and C only
(3) A, C and D only
(4) B, C and D only

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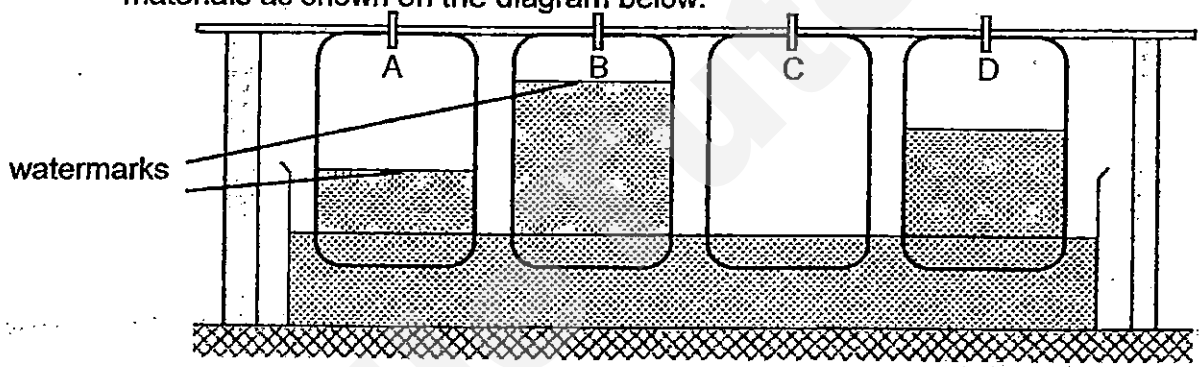
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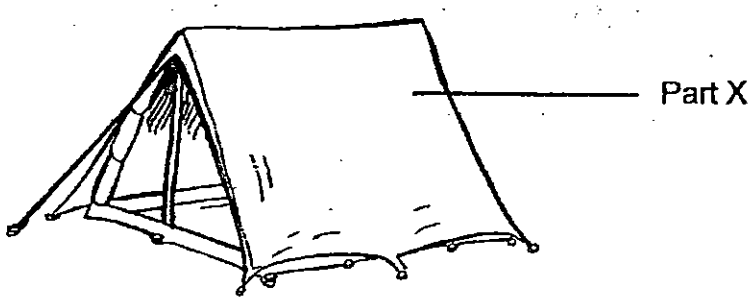
15. Selvi set up an experiment to find out the ability of different materials to absorb water. She placed the ends of 4 pieces of materials, A, B, C and D, all at the same time, into a container of red-coloured water as shown in the diagram below. The materials were of the same shape and size.



After 10 minutes, she observed the height of the watermark on each of the four materials as shown on the diagram below.



Based only on the above results, which one of the materials, A, B, C or D, is most suitable to be made into part X of a tent used for camping in the outdoors?



(1) Material A

(2) Material B

(3) Material C

(4) Material D

END OF BOOKLET A

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Name : _____ ( )

Class : Primary 3 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL

Primary 3
Semestral Assessment 1 – 2015
SCIENCE

BOOKLET B

14 May 2015

Booklet A	30
Booklet B	20
Total	50

Total Time for Booklets A and B: 1 hour 15minutes

7 questions
20 marks

Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

This paper consists of 7 printed pages.

_____

Parent's Signature/Date

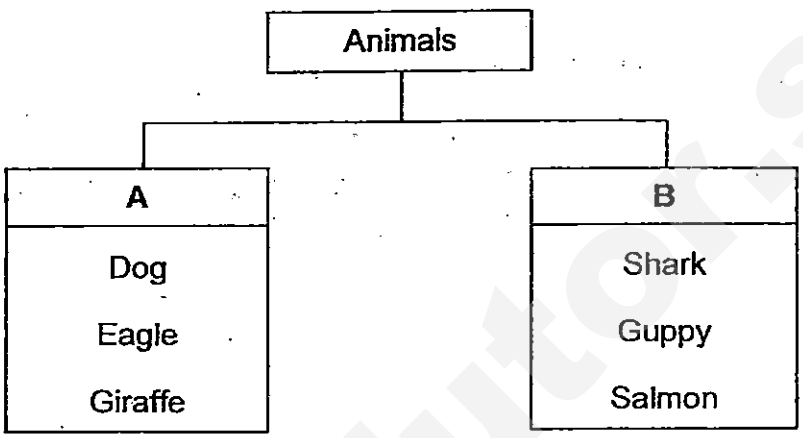
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SECTION B (OPEN–ENDED QUESTIONS) [20 marks]

For questions 16 to 22; write your answers in this booklet. The number of marks available is shown in the brackets [ ] at the end of each question or part question.

16. The classification chart given below shows some animals classified based on a certain characteristic.



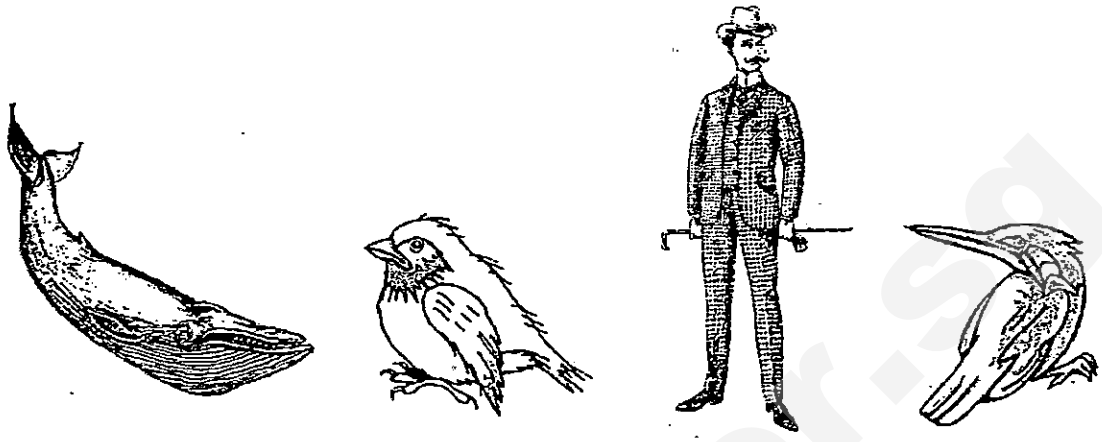
(a) How are the animals in the above classification chart above being classified? [1]

(b) Based on the classification chart above, which animal group, **A** or **B**, can an adult frog be classified under? Give a reason for your answer. [2]

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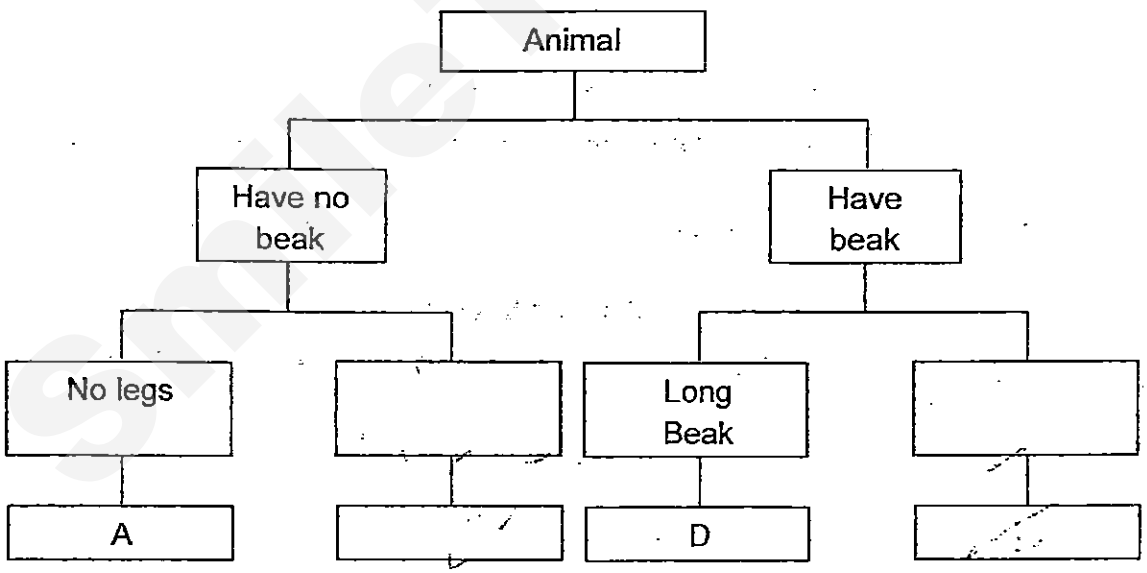
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17. The diagram below shows four different animals, A, B, C and D.



A B C D

Based only on what is observable in the diagrams above, complete the classification chart below by filling in the boxes. [2]



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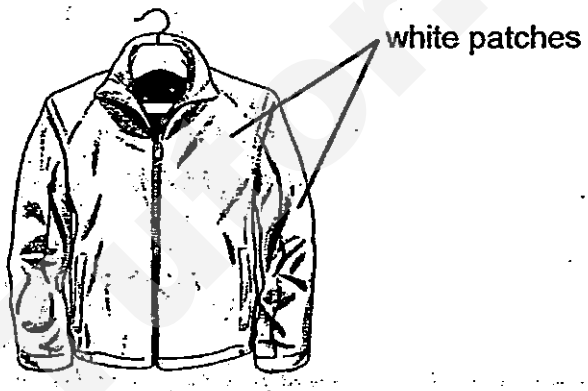
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18. Zaiton has two wardrobes, A and B. She hung a moisture absorber, as shown below, in wardrobe A only.



Moisture Absorber

After 6 months, she observed white patches growing on her leather jacket.



Black Leather Jacket

(a) What do you think the white patches are? [1]

_____

(b) Based on her observation, in which wardrobe, A or B, was the leather jacket placed? [1]

_____

(c) Explain your answer in (b). [1]

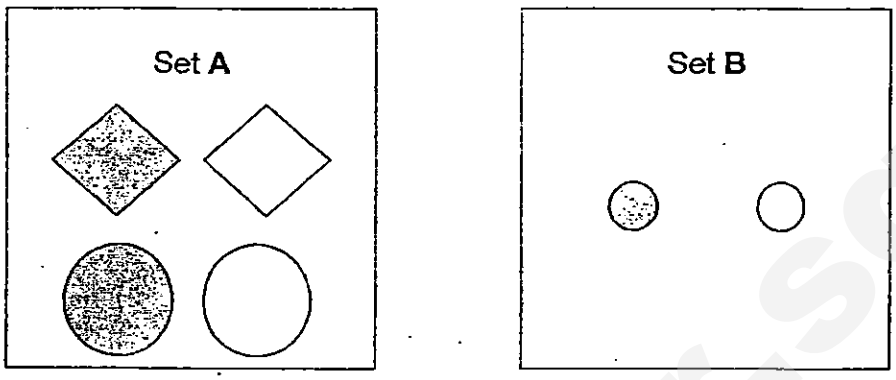
_____

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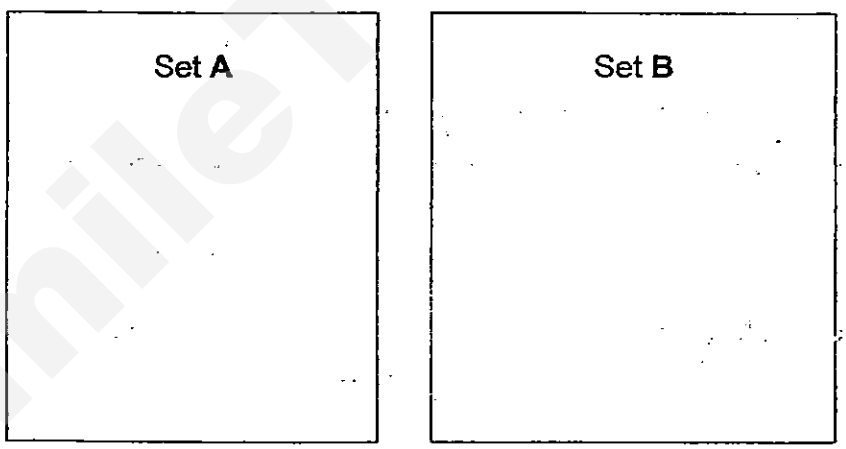
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19. Donna is given two sets of objects as shown below.



(a) The objects above are classified according to their _____. [1]

(b) Using **another** characteristic, **draw** in the boxes below to show how you would classify all the above objects. [2]



(c) Based on your answer above, give suitable headings for Set **A** and Set **B** respectively.

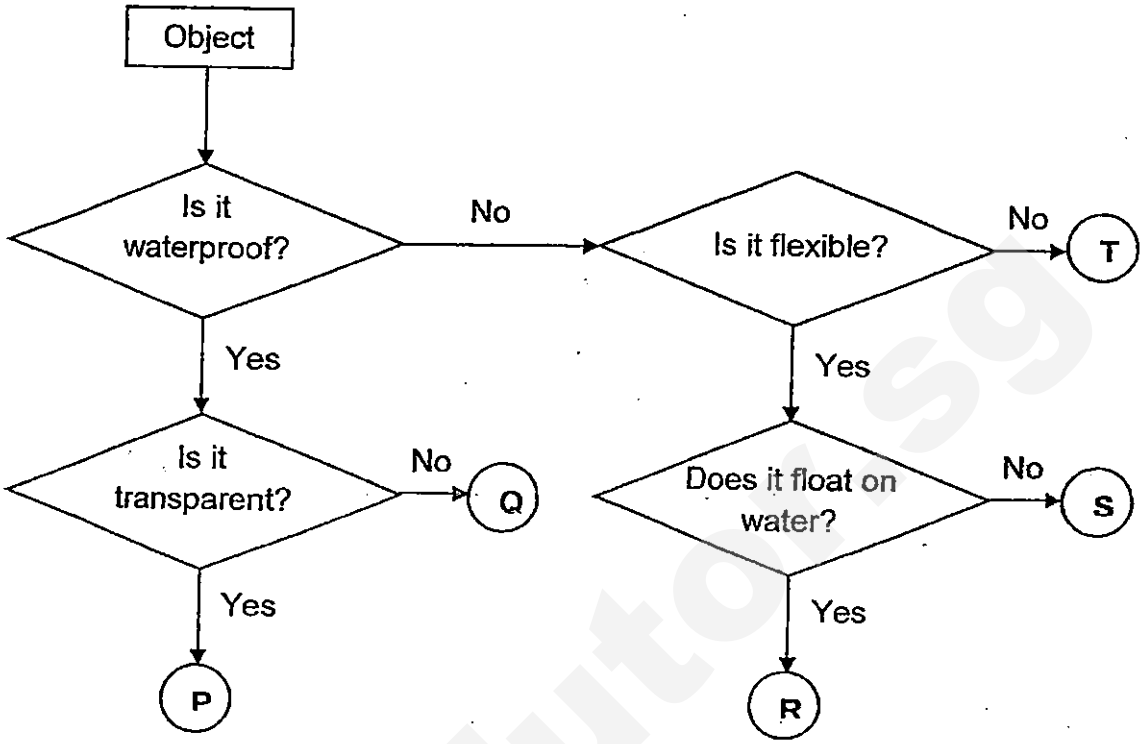
(i) Set **A** : _____ [½]

(ii) Set **B** : _____ [½]

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20. Study the flowchart given below.



(a) Using the flowchart above, state the **similarities** between **R** and **S**. [2]

_____

_____

(b) Using the flowchart above, state the **difference** between **P** and **T**. [1]

_____

_____

(c) In the flowchart above, where will you place the objects given below?

(i) Rubber Tyres : _____ [½]

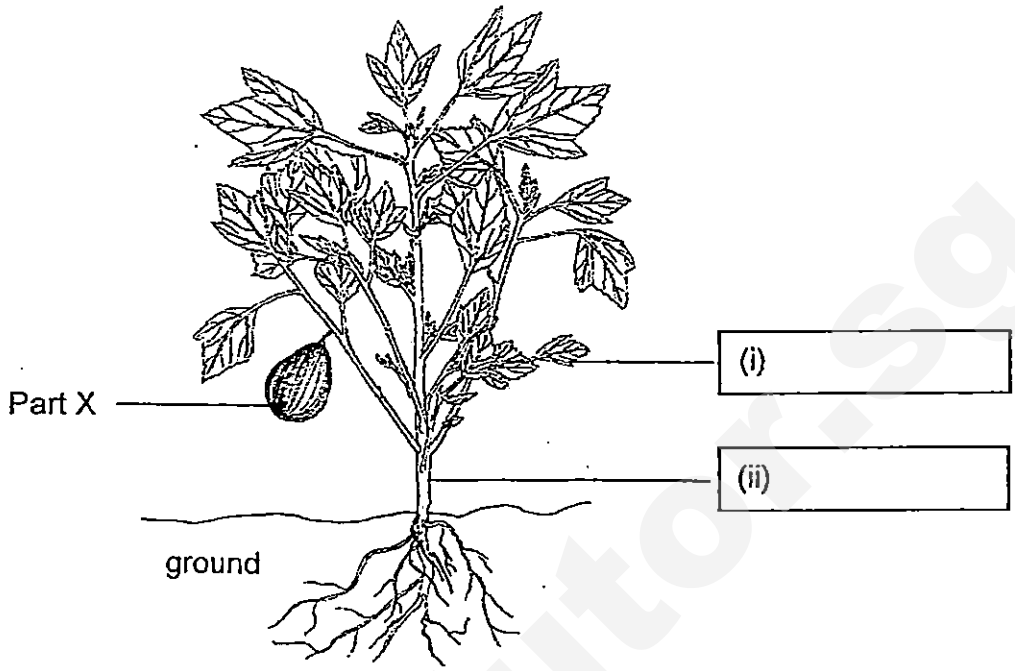
(ii) Large Bath Towel : _____ [½]

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21. The diagram below shows a plant.

(a) Name the parts labelled (i) and (ii). [1]



(b) State how Part X is important to the plant. [1]

_____

22. Benson observed a young plant. The following table records the number of leaves that it has over five weeks.

Week	1	2	3	4	5
Number of Leaves	2	5	?	10	14

(a) Based on above table, what do you think the number of leaves at the end of **week 3** will be? [1]

_____

(b) At the end of Week 6, Benson noticed that there were only 3 leaves left on the plant as some leaves had fallen and the plant had turned yellow. Give a possible reason for this observation. [1]

_____

END OF BOOKLET B

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : CHIJ ST NICHOLAS GIRLS SCHOOL
SUBJECT : SCIENCE
TERM : SA1

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
4	**2**	**1**	**3**	**1**	**3**	**4**	**1**	**2**	**3**
Q 11	Q 12	Q 13	Q 14	Q 15					
2	**4**	**2**	**4**	**3**					

Q16a. Living on land and in water.

Q16b. The adult frog can be classified under group B. Their young lives in the water.

Q17. **SEE PICTURE** Q18a. The white patches are mould.

Q18b. The leather jacket was placed in wardrobe B.

Q18c. There was no moisture absorber in wardrobe B.

Q19a. size Q19b. **SEE PICTURE** Q19c 9i) Set A: Shaded Q19(ii) Set B: not shaded

Q20a. They are not water proof and flexible.

Q20b. P is waterproof whereas T is not. Q20c. (i) Q Q20c 9ii) S

Q21a. **SEE PICTURE** Q21b. Part X can produce more seeds.

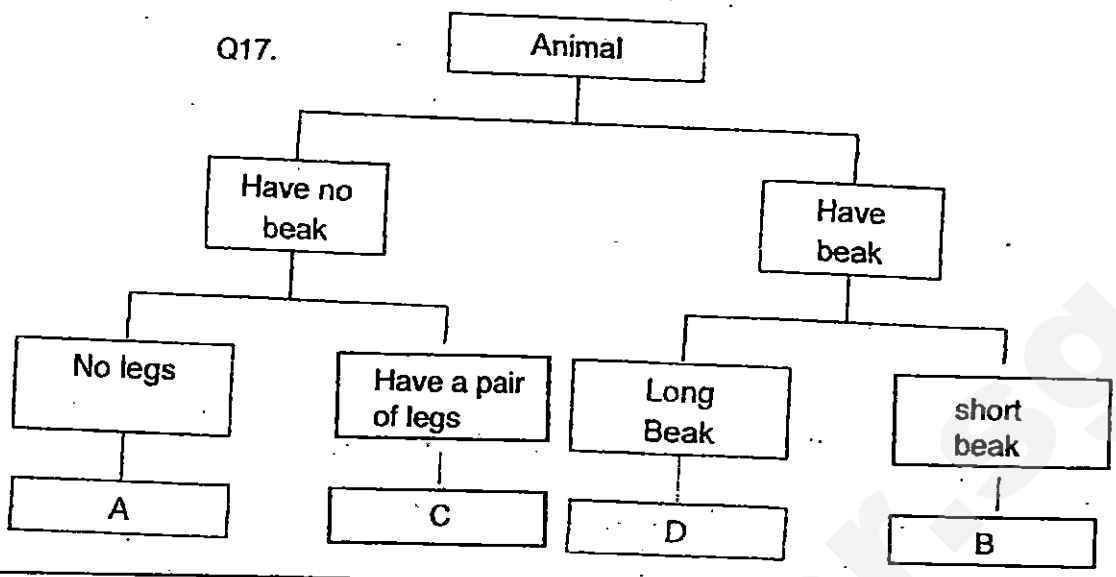
Q22a. There will be leaves at the end of week 3.

Q22b. He might have forgotten to water the plant.

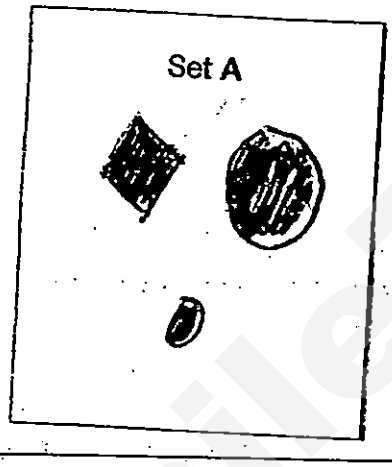
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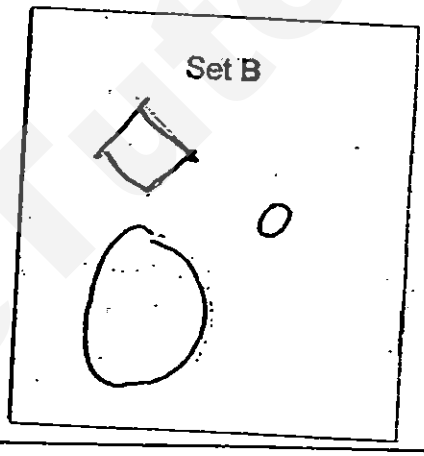
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Q17.

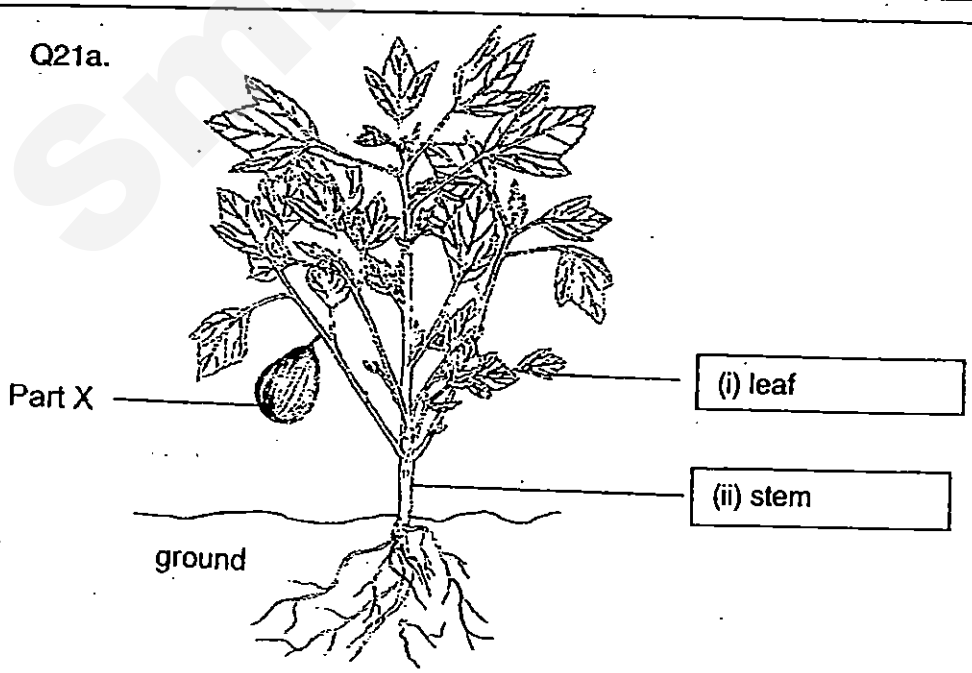


Q19b.





Q21a.



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HENRY PARK PRIMARY SCHOOL
2015 SEMESTRAL EXAMINATION 1
SCIENCE
PRIMARY 3

Duration of Paper: 1 h 30 min

80

Name: _____

Class: Pr 3 _____ Parent's Signature: _____

Section A Multiple-Choice Questions (40 marks)

For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

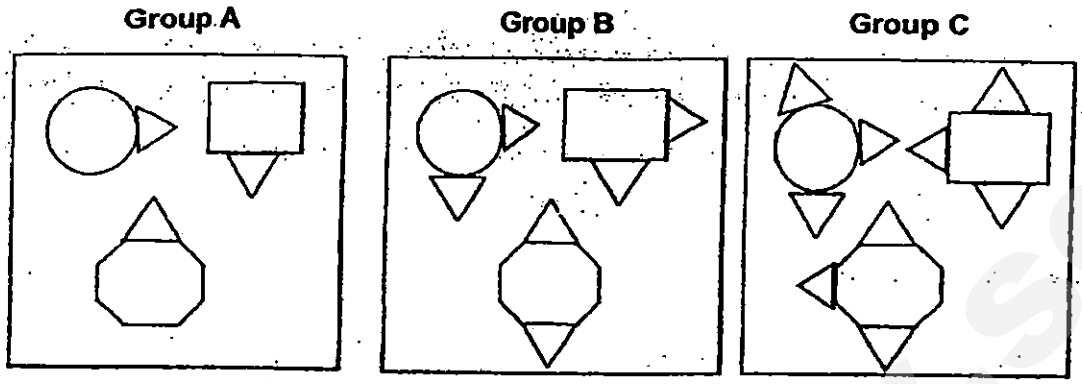
1. Which of the following about plants and animals is correct?

(1) Both will grow and die.
(2) Both give birth to their young.
(3) Both can move from one place to another.
(4) Both depend on other living things for food.

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2. Study the groups of objects in the pictures below.



The objects in the pictures are grouped according to the _____.

(1) number of circles
(2) number of triangles
(3) size of the triangles
(4) size of the rectangles

( )

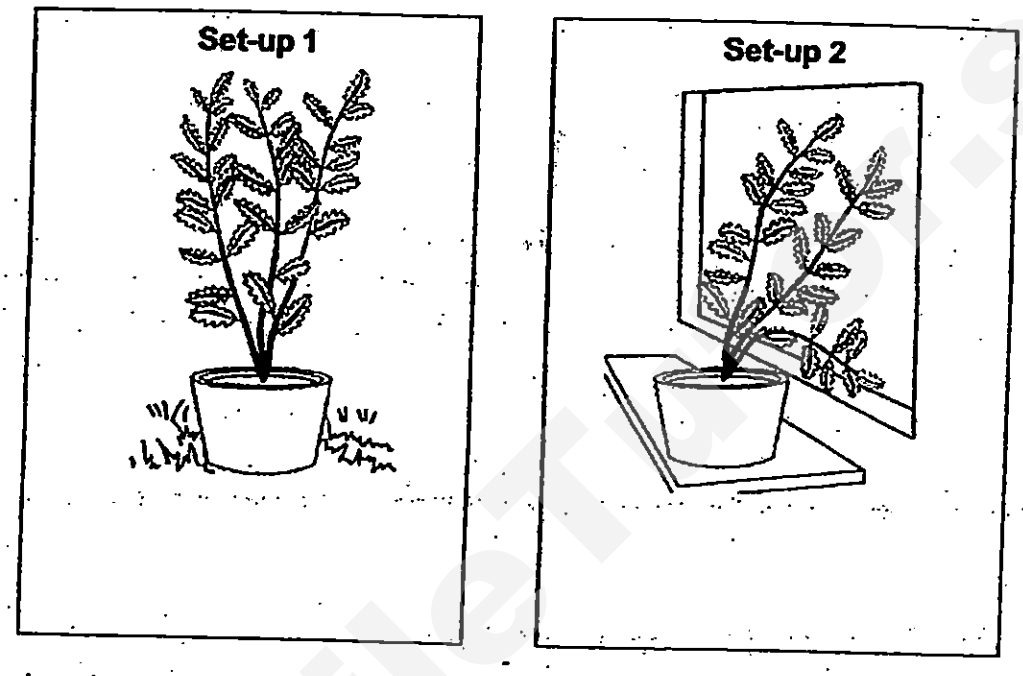
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3. Brenda used two similar plants in Set-ups 1 and 2.

Set-up 1 was placed in an open field while Set-up 2 was placed beside an open window. The pictures below show the plants after one week.



Based on the pictures, what can Brenda observe about the characteristic of the plant in **Set-up 2**?

The plant _____.

(1) can die
(2) needs air
(3) can reproduce
(4) responds to changes around it

( )

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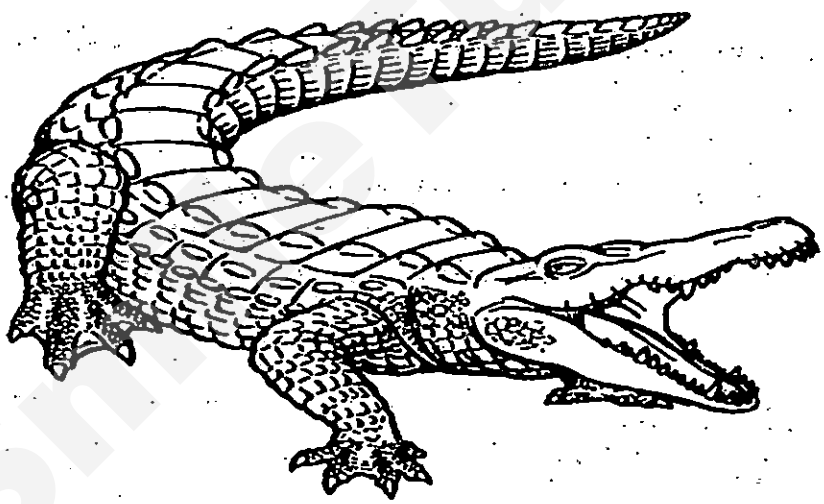
4. The table below shows the characteristics of four animals, **A**, **B**, **C** and **D**.
(✔) means the animal has the characteristic and (✘) means it does not.

Which animal is most likely a **bird**?

	Animal	Has fins	Has hair on its body	Reproduce by laying eggs	Live in water
(1)	A	✘	✔	✘	✔
(2)	B	✔	✘	✔	✔
(3)	C	✘	✔	✘	✘
(4)	D	✘	✘	✔	✘

( )

5. Look at the animal shown below.



Based on the diagram above, which of the following characteristics of the animal is **correct**?

(A) It has a tail.
(B) It lives underground.
(C) It has scales as an outer covering.
(D) It feeds on both animals and plants.

(1) A and B only
(2) A and C only
(3) B and D only
(4) C and D only

( )

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6. Which of the following characteristics do insects have in common?

A. They have six legs.
B. They have feelers.
C. They have three body parts.

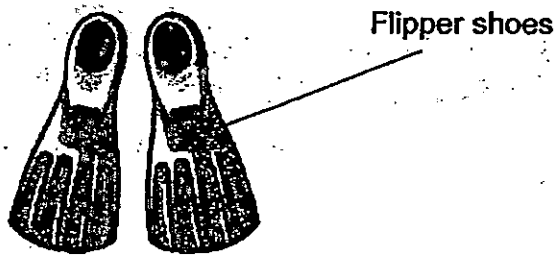
(1) A and B only
(2) A and C only
(3) B and C only
(4) A, B and C

( )

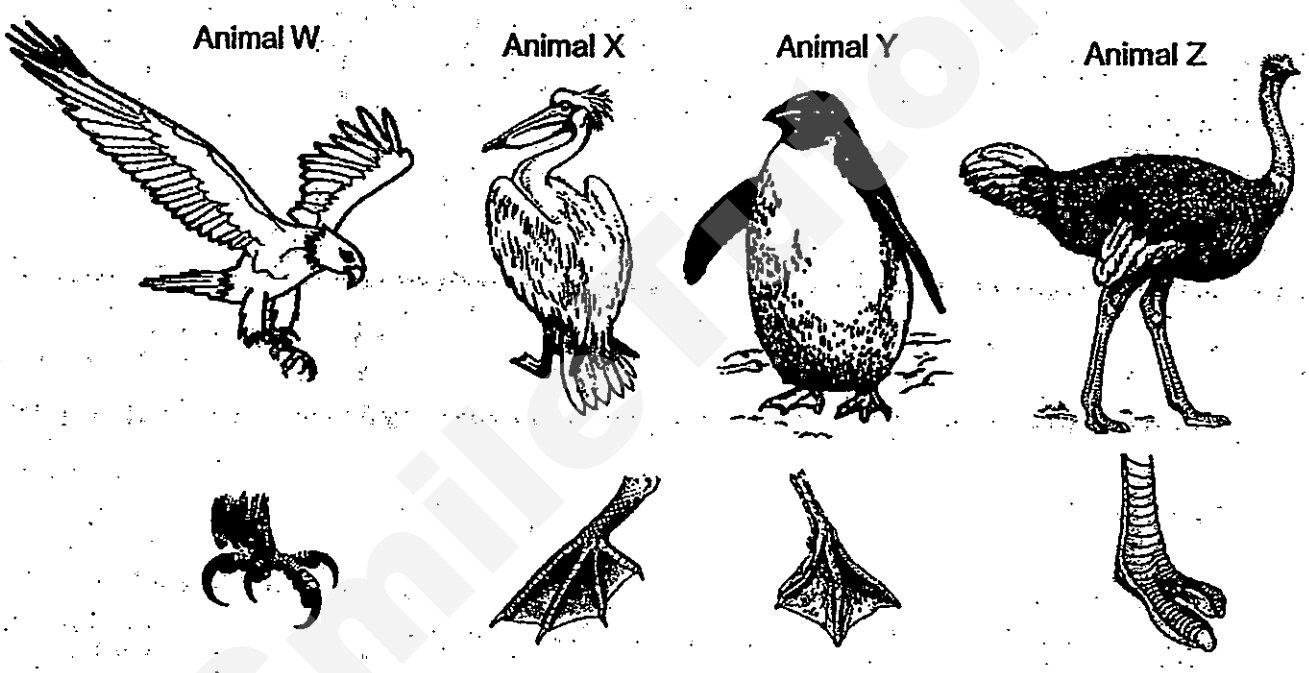
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7. Megan used a pair of flipper shoes as shown below to help her swim in water.



She then observed some birds shown in the diagrams below.
She noticed that their feet help the birds to move about in their environment.



Observe the animals' feet carefully.

Which of the animals' feet above are able to help them swim in water?

(1) Animal W only
(2) Animal X and Y only
(3) Animal W and Z only
(4) Animal X, Y and Z only

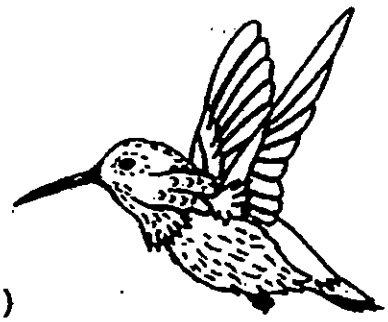
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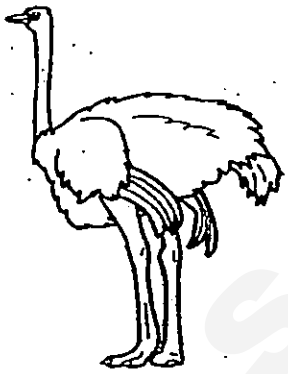
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8. Which one of these animals has a **different** outer covering compared to the rest?

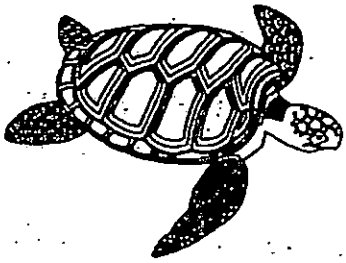
(1)



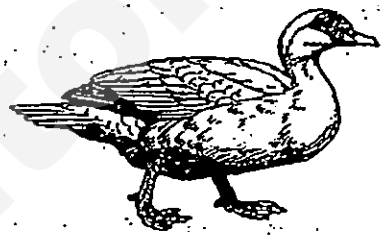
(2)



(3)



(4)

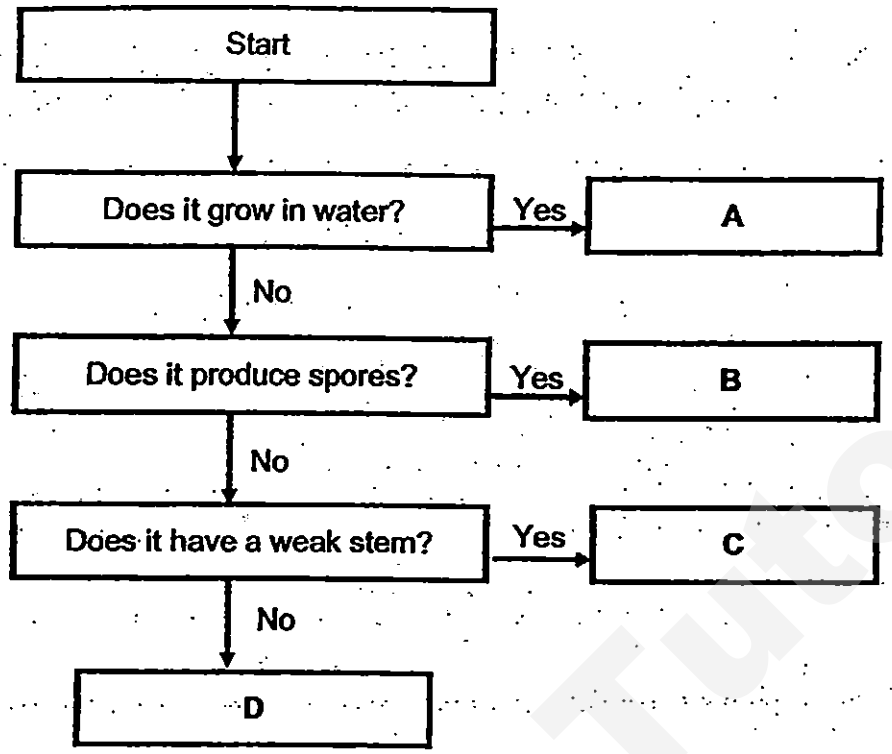


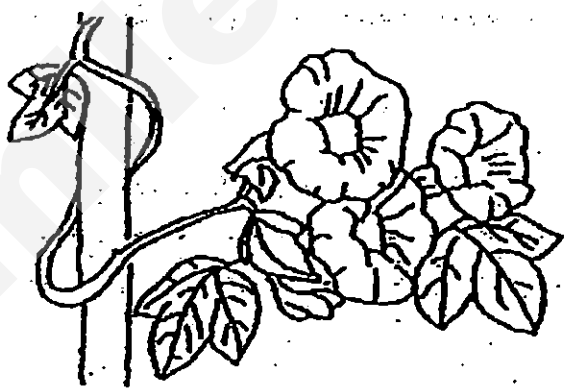
( )

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9. Study the flow chart and plant X shown below:





Plant X

Which of the following most likely represents plant X?

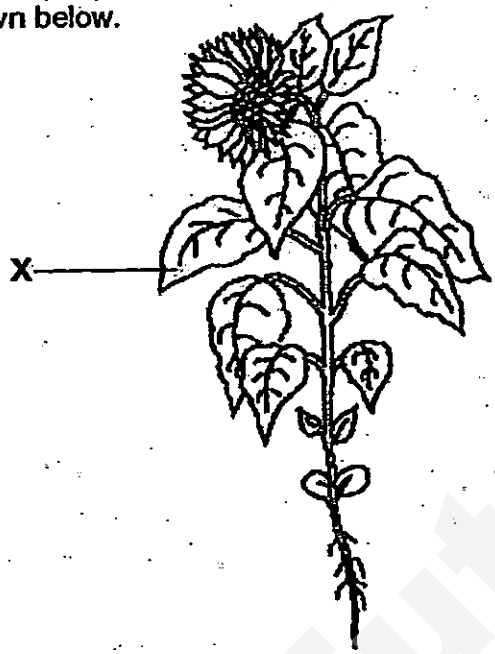
(1) A
(2) B
(3) C
(4) D

( )

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10. Study the plant shown below.



Which of the following represents X?

(1) Leaf
(2) Stem
(3) Root
(4) Flower

( )

11. Four similar plants A, B, C and D, are given the conditions shown in the table below.

Conditions	Plant A	Plant B	Plant C	Plant D
Water	✓	✓		✓
Sunlight	✓		✓	
Air	✓		✓	✓

(✓ - Condition is given)

Which plant is likely to survive?

(1) A
(2) B
(3) C
(4) D

( )

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12. Ahmad wanted to find out if plants can grow without sunlight.

He put Plant X near his window where it received lots of sunlight and Plant Y in a dark cupboard.

Ahmad watered both plants regularly.

Which of the following is Ahmad likely to observe after a few months?

	Plant X	Plant Y
(1)	Alive	Alive
(2)	Alive	Dead
(3)	Dead	Alive
(4)	Dead	Dead

( )

13. Study the table below.

Organism	Reproduces by spores	Makes its own food
A		✓
B	✓	
C	✓	✓

Which organism is likely to be a flowering plant?

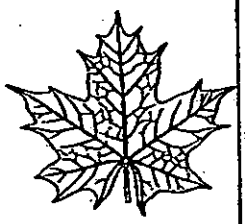
(1) A only
(2) B only
(3) A and C only
(4) B and C only

( )

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14. Mei Ling observed some leaves found in her school.
She classified the leaves according to their shapes as shown below.

Group			
A	B	C	D
			

Mei Ling then saw Leaf Z as shown below.



Leaf Z

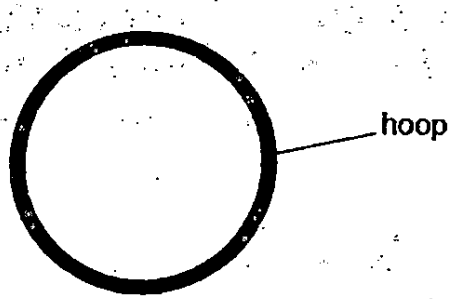
In which group should Mei Ling classify Leaf Z?

(1) A
(2) B
(3) C
(4) D

( )

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15. Mr. Yuan wanted to use a **flexible** and **waterproof** material to make a hoop for his young daughter to play with.



Which of the following is the **most** suitable material to make the hoop?

(1) Glass
(2) Metal
(3) Plastic
(4) Ceramics

( )

16. Four children can touch and smell an object inside a bag, but they cannot see it.

Which of the following is **NOT** an observation about the object?

(1) **Ben:** The object has a bump on it.
(2) **Dev:** The object smells like peppermint.
(3) **Malek:** I hope that the object is a candy.
(4) **Ravi:** The object is flat at one end and round at the other.

( )

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17. Which of the plants shown below is likely to be a **non-flowering** plant?

(1)



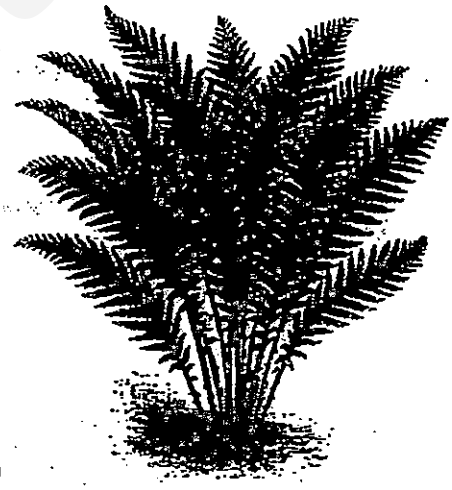
(2)



(3)



(4)

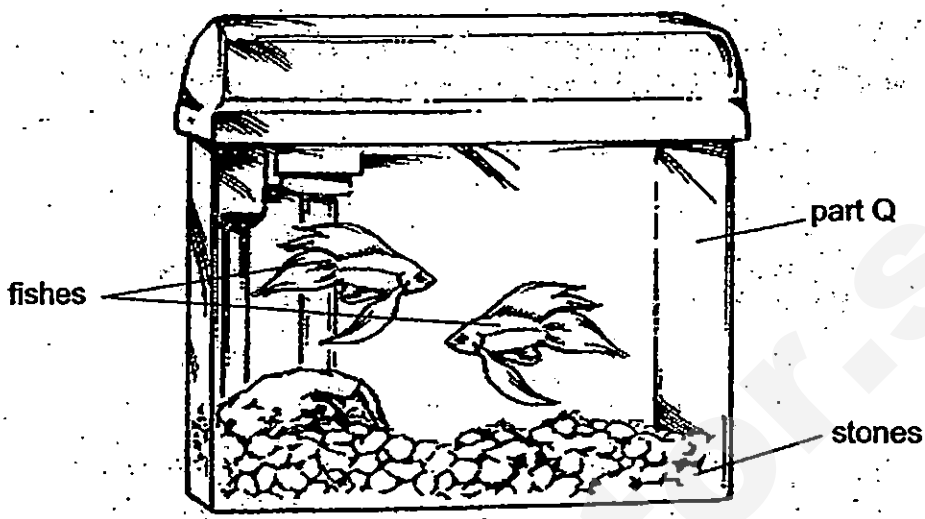


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18. Observe the diagram of a fish tank below. Part Q is usually made of thick pieces of glass.



Which one of the following is the most likely reason for choosing glass to make part Q?

(1) It is heavy.
(2) It breaks easily.
(3) It sinks in water.
(4) It allows light to pass through it.

( )

19. The diagram below shows a mushroom.



What can be found in the part labelled 'Z'?

(1) Food
(2) Seeds
(3) Spores
(4) Bacteria

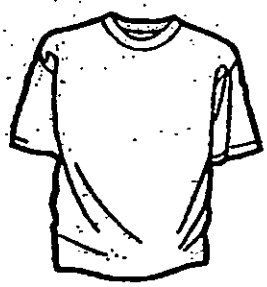
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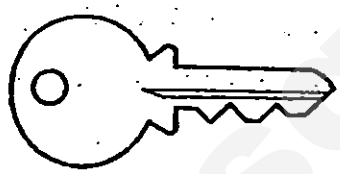
20. Which of the following things is made from a plant?

(1)



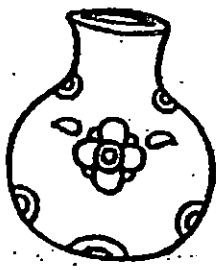
Cotton Shirt

(2)



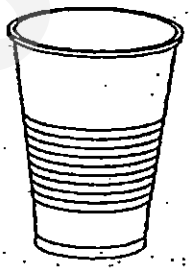
Metal Key

(3)



Ceramic Vase

(4)



Plastic Cup

( )

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Section B: Structured Questions (16 marks)

For each question from 21 to 28, write your answers in the spaces given.

21. Nick has three things, **R**, **S** and **T**, in her kitchen. She observed them for a three weeks and described their characteristics in the table below.

	R	S	T
Does it grow?	Yes	No	Yes
Does it need food?	Yes	No	Yes
Does it move from one place to another?	Yes	Yes	No

(a) Which of the things(s) **R**, **S** or **T** could possibly be a living thing? [1m]

_____

(b) Which one of the things, **R**, **S** or **T** could possibly be a plant? [1m]

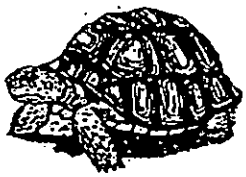
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22. The diagrams below show animals P, Q, R and S.



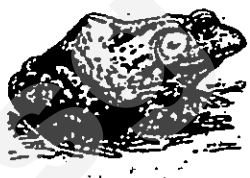
Animal P



Animal Q



Animal R



Animal S

(a) Based on the pictures above, write **P**, **Q**, **R** or **S** under the correct headings below. [1m]

Can fly	Cannot fly

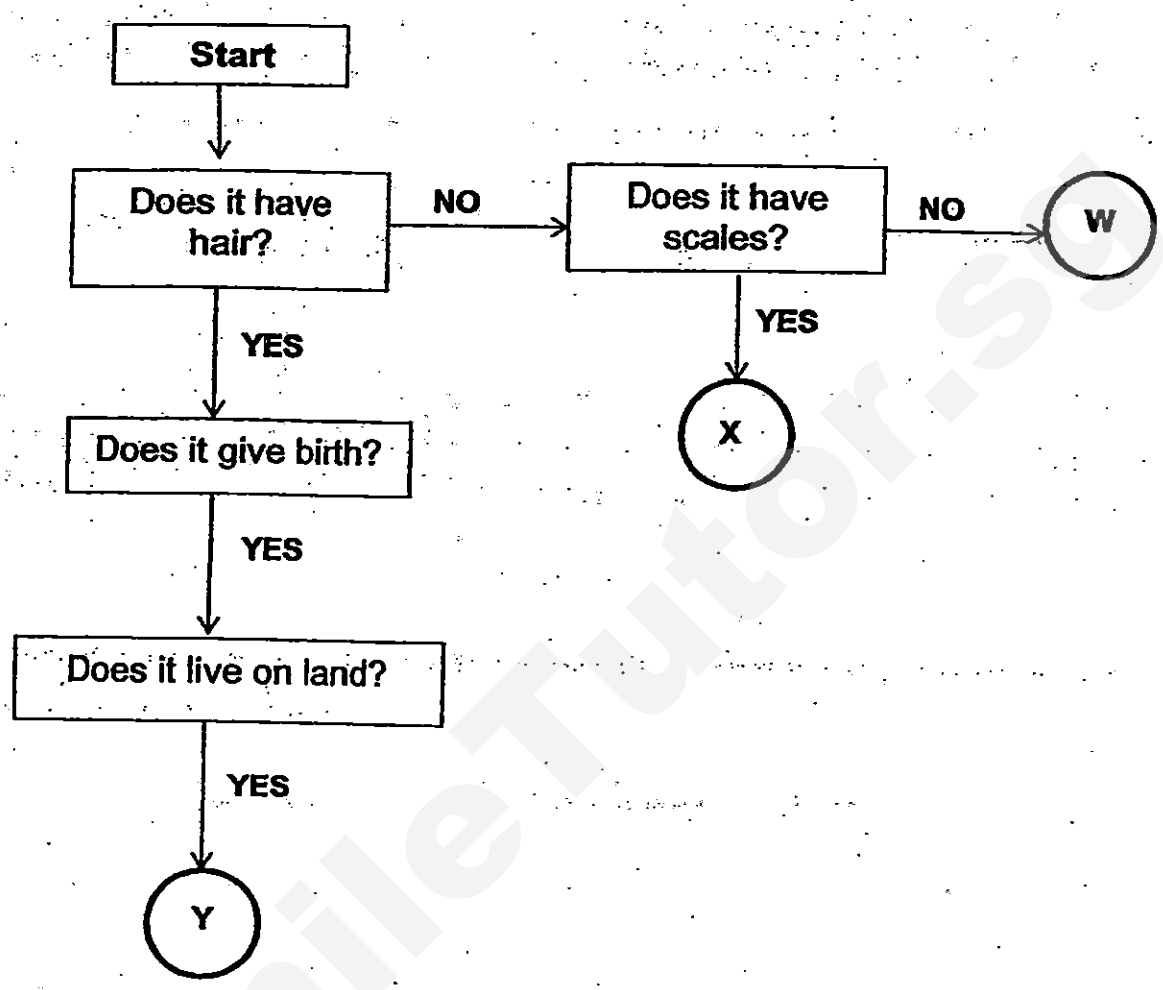
(b) Which part of their bodies helps the animals to fly? [1m]

_____

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23. Sam observed three animals, W, X and Y. From his observation, he drew the following flowchart.

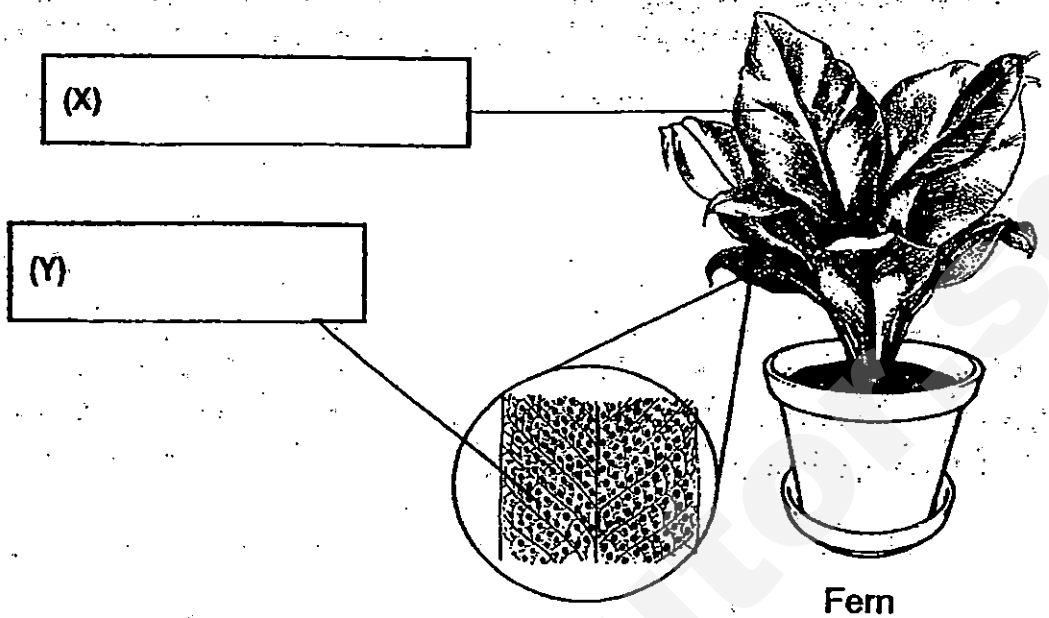


a) Which animal, W, X or Y, is likely to be a mammal? [1m]

b) Which animal, W, X or Y, is likely to be a bird? [1m]

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24. In the diagram below, Y is found on the underside of part **X** of the fern.



Fern

Label correctly what **X** and **Y** are, on the diagram above. [2m]

25. Write (T) if the statement is **true** and (F) if the statement is **false** in the boxes provided. [2m]

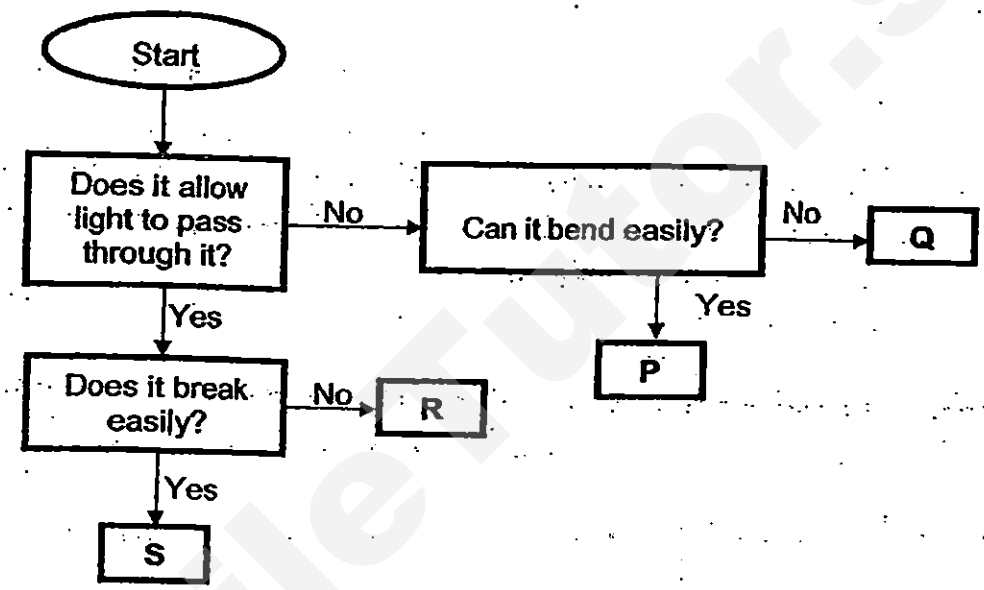
	Statements	T or F
(a)	Flowering plants produce fruits.	
(b)	Plants can make their own food.	
(c)	Non-flowering plants can reproduce.	
(d)	Flowering plants cannot reproduce.	

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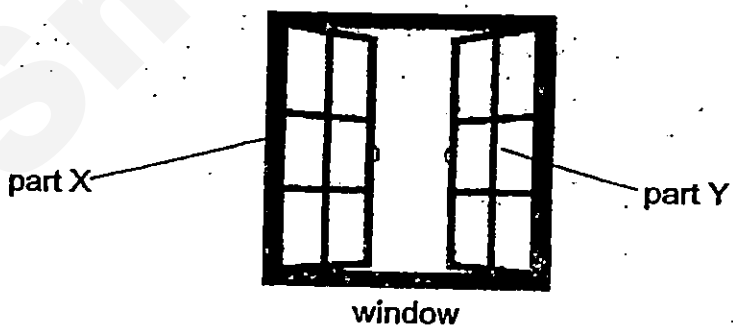
26. Tick (✓) 'True' or 'False' in the respective columns for the following statements. [2m]

	Statement	True	False
a)	Fungi belong to the plant group.		
b)	Bacteria belong to the animal group.		

27. Study the flowchart about some materials.



Write P, Q, R or S, to the correct parts of the window shown below. [2m]



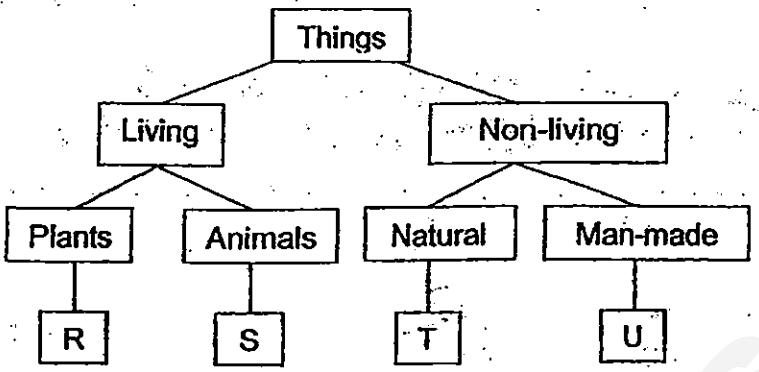
a) Part X - _____

b) Part Y - _____

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28. The classification chart below shows two groups of objects.



Classify the two things shown below under the suitable groups.

Write R, S, T or U in the correct boxes below. [2m]

a) 

Fern

b) 

Bear

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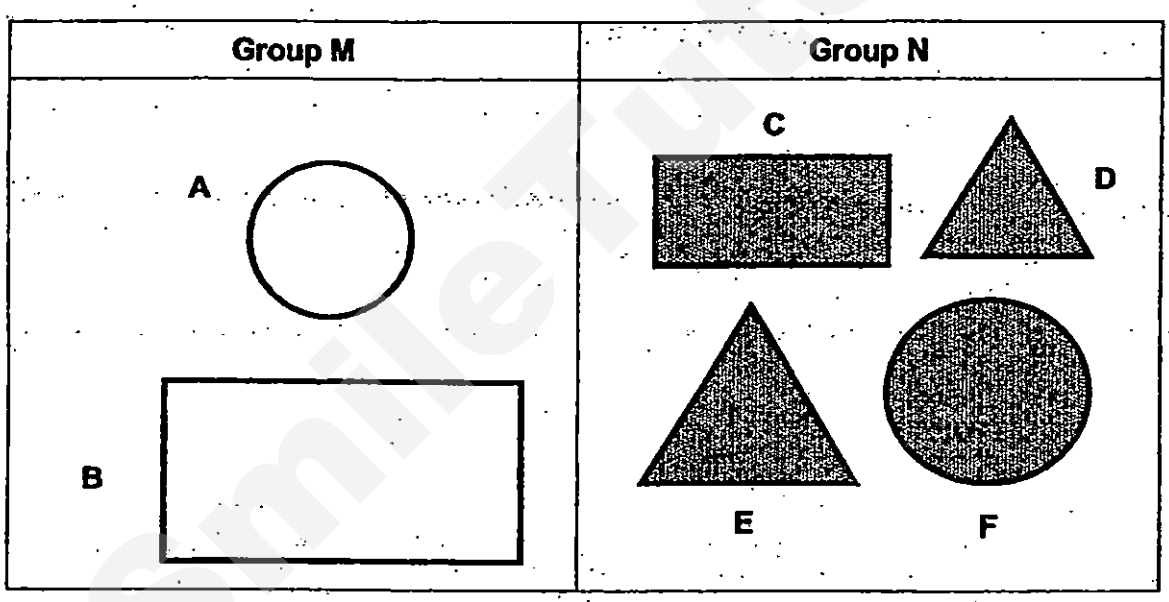
Name: _____

Class: Pr 3 _____

Section C: Open-Ended Questions (24 marks)

For each question from 29 to 36, write your answers in the spaces given.

29. Observe the shapes in the two groups below.



a) The shapes shown above are classified into two groups. [1m]

How are they classified? Tick (✓) the correct box.

- The shapes are classified by size. ☐
- The shapes are classified by whether they are shaded or unshaded. ☐
- The shapes are classified by the number of sides each has. ☐

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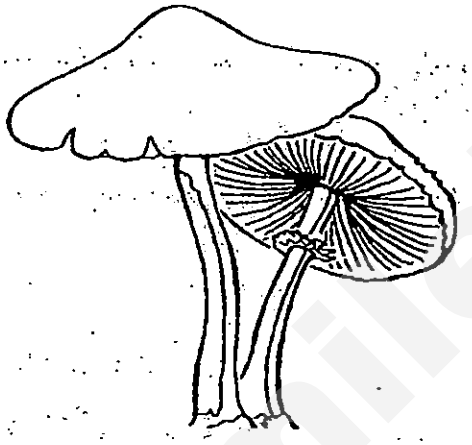
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b) **Classify** the objects again into **three** groups. [2m]

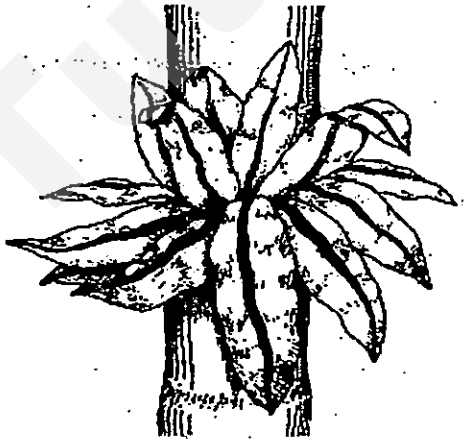
Write A, B, C, D, E and F that represent the objects in the boxes below.

Group 1	**Group 2**	**Group 3**

30. Study the organisms shown below.



Mushroom



Fern

a) These two organisms reproduce in a **similar** way. [1m]
State this **similarity**.

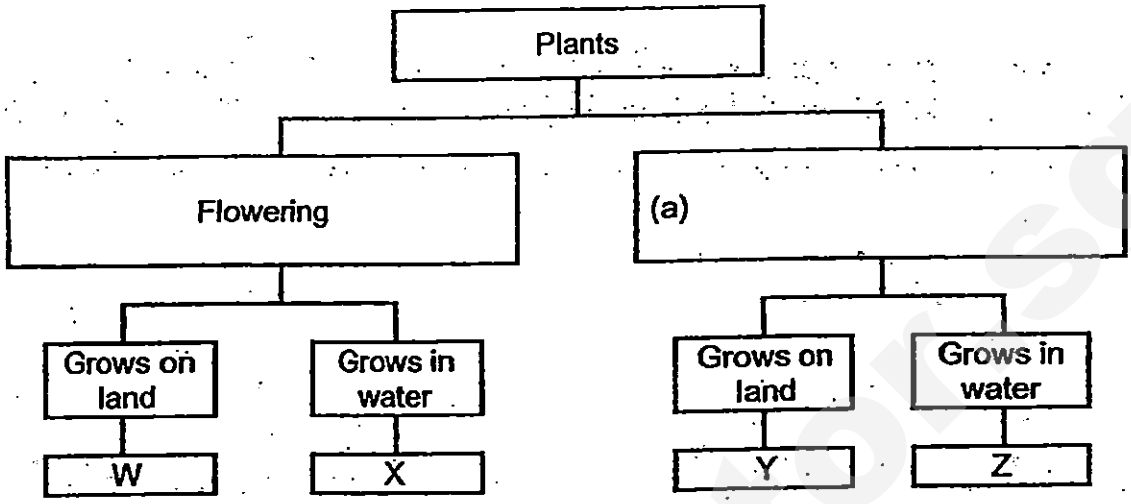
_____

b) These two organisms obtain food in **different** ways. [1m]
State this **difference**.

_____

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31. Study the classification chart shown below.



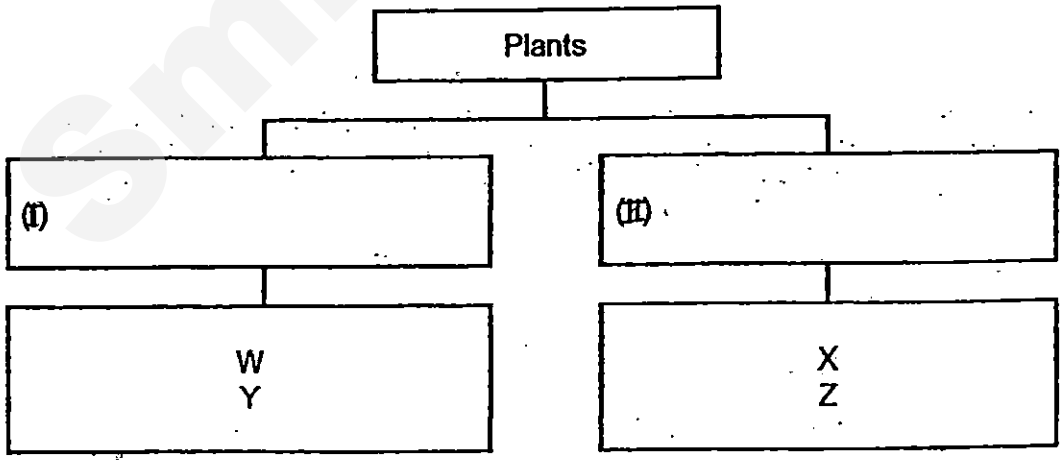
a) Write a suitable heading for (a) in the classification chart above. [1m]

b) Based on the classification chart above, state **two** characteristics of plant W. [2m]

Characteristic 1: _____

Characteristic 2: _____

c) Plants W, X, Y and Z were classified again into two groups as shown below.



Write suitable headings for (I) and (II) in the classification chart above. [2m]

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32. Tim observed some animals and used the table below to classify them into animal groups.

	Reptile	Amphibian	Group X	Group Y
Type of outer covering	Dry skin with scales	Moist skin	Feathers	Hair
Hatched from egg	Yes	Yes	Yes	No
Feed young with milk	No	No	No	Yes
Lives in water	No	Yes	No	No

a) Write a suitable animal group for X and Y. [2m]

Group **X:** _____

Group **Y:** _____

b) Tim studied Animal Z and recorded its characteristics below.

Characteristics of Animal Z

- Has hair
- Feeds its young with milk
- Lives in the sea

In which animal group should Animal Z be classified under? [1m]

_____

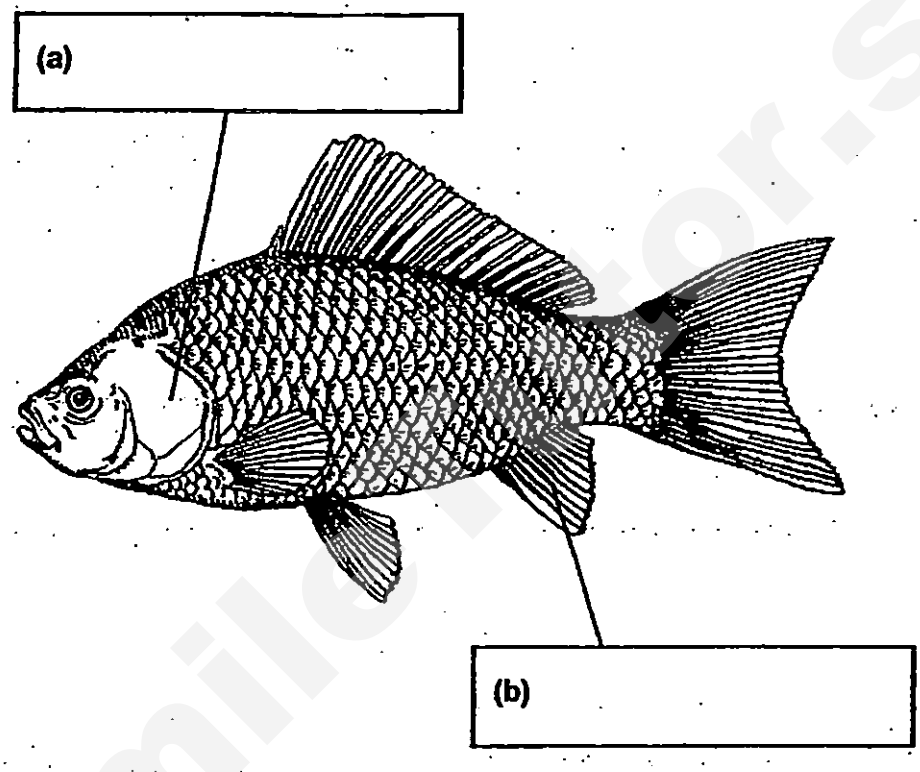
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33. Study the animal shown below.

Using the helping words given below, label parts (a) and (b) correctly. [2m]

Helping Words

Fin	Scale
Tail	Gill Cover



c) Charlie classified the above animal as an insect.
Explain why Charlie is wrong. [1m]

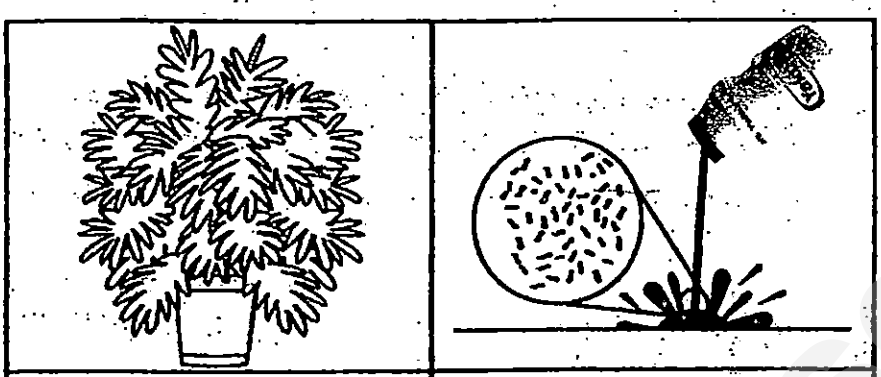
_____

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34. The diagram below shows two types of organisms.



Organism C	Organism D

a) State **two** differences between Organism C and Organism D. [2m]

i) Difference 1 - _____

_____

ii) Difference 2 - _____

_____

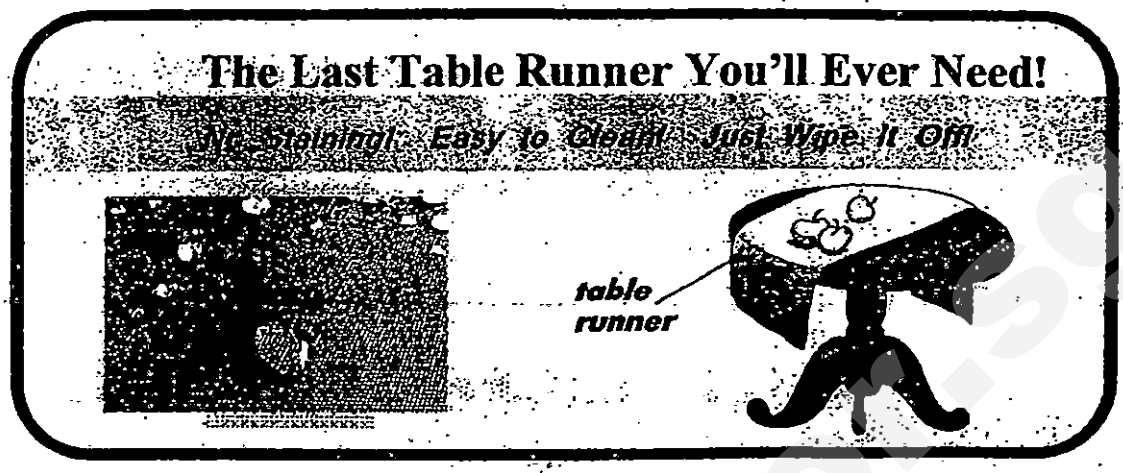
b) State **one** similarity between Organism C and Organism D. [1m]

_____

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35. Jacob saw the advertisement, shown below, that described a table runner.



a) Tick (✓) the correct property of the table runner that is shown in the advertisement above? [1m]

☐ Waterproof ☐ Sinks in water ☐ Allows light to pass through

b) Name a suitable material that the table runner could be made of. [1m]

_____

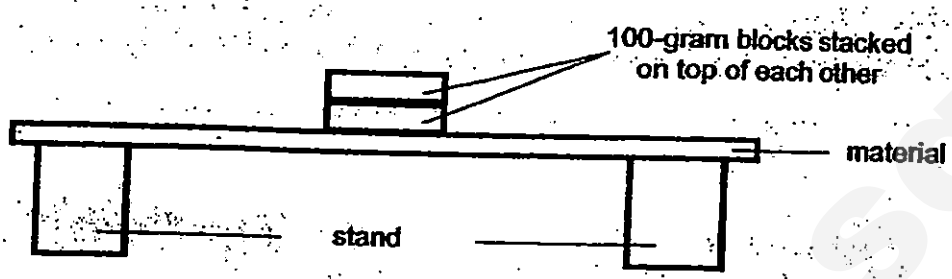
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36. Flora carried out the following experiment on three different materials X, Y and Z.

b)



	Material X	Material Y	Material Z
Number of blocks that caused the material to break	5	30	90

a) Which property of the material is she testing for? [1m]

_____

b) Which material is the strongest? [1m]

_____

c) Using the information from the table, explain your answer for (b). [1m]

_____

_____

- End of paper -

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LEVEL : PRIMARY 3
SCHOOL : HENRY PARK
SUBJECT : SCIENCE
TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	2	4	4	2	2	2	3	3	1
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
1	2	1	1	3	3	4	4	3	1

Q21a. Thing R and T → could possibly be a living thing.
Q21b. Thing T

Q22a. can fly – P, R cannot fly → Q, S
Q22b. The wings.

Q23a. Y Q23b. W

Q24. X – leafs Q24. Y – spores

Q25.a. TRUE Q25b. TRUE Q25c. TRUE Q25d. FALSE

Q26a. FALSE Q26b. FALSE

Q27a. Part X – Q Q27b. Part Y – S

Q28a. Fern Q28b. S

Group 1	Group 2	Group 3
A, F	C, B	E, D

Q29. The shapes are classified by whether they are shaded or unshaded. Q29 (b)

Q30a. They reproduce by spores.
Q30b. The mushroom feeds organisms but the fern makes its own food.31a.

Q31a. It is a flowering plant.
Q31b. Characteristic 1 : It is a flowering plant.
Q31b. Characteristic 2 : It grows on land.
Q31c 1) Grows on land Q31c ii) Grows in water

Q32a. Group X : Birds Q32b. The mammal group
Group Y: Mammals
Q33a. Gill cover Q33b. Fin
Q33c.

Compare	Insect	Fish
Body Cover	Exoskeleton	Scales
L parts	3 parts – Head,thorax,abdomen	2 parts
Breathing method	Lungs, skin	Gills

Q34ai) Difference 1 – Organism C has leaves but organism D does not.
Q34aii) Difference 2 – Organism D can only be seen through a micro-scope, but organism C can be seen with the naked eye.
Q34b. They both can reproduce.
Q35a. Wateproof Q35b. Rubber

Q36a. Strength Q36b Material Z. Q36c. As it could hold the most 100-gram blocks until it broke.

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MAHA BODHI SCHOOL

2015 SEMESTRAL ASSESSMENT 1

PRIMARY THREE SCIENCE

Name :_____( ) Date : 14 May 2015

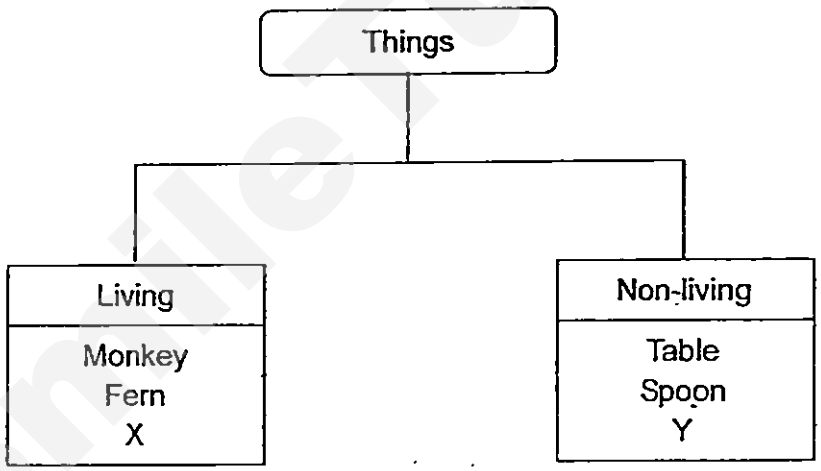
Class : Primary 3)

Duration : 1 h 15 min (Booklets A and B)

BOOKLET A [15 x 2 marks = 30 marks]

For each question from 1 to 15, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). **Shade your answer on the Optical Answer Sheet.**

1. Study the classification table below



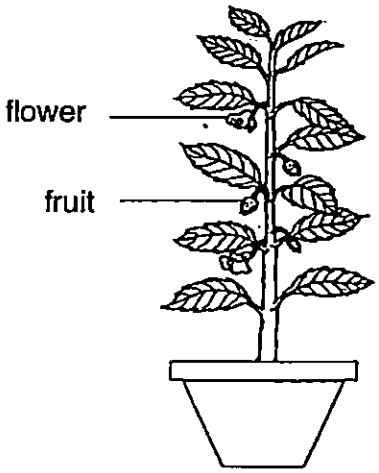
Which of the following best represents X and Y?

	X	Y
(1)	Robot	Car
(2)	Caterpillar	Butterfly
(3)	Elephant	Aeroplane
(4)	Pencil	Fork

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2. Sam saw a pot of plant as shown in the diagram below.



Based on the diagram, Sam can say that it _____.

(1) is a fern
(2) has roots
(3) has edible fruits
(4) is a flowering plant

3. Which of the following statement(s) is/are true about all plants ?

A. All plants can make their own food.
B. All plants can reproduce.
C. All plants have flowers.

(1) A only
(2) A and B only
(3) B and C only
(4) A, B and C

4. John saw an animal in the zoo and he said that it is a mammal.
Which of the following observations made him say that?

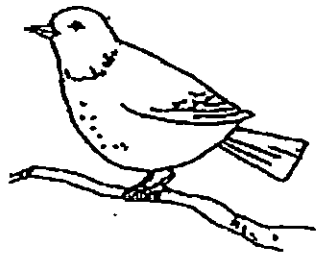
(1) The animal laid eggs.
(2) The animal had wings.
(3) The animal lived in water.
(4) The animal had hair on its body.

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5. Study the diagrams below.



Animal E



Animal F

Based on the diagrams, what do Animals E and F have in common?

A. They lay eggs.
B. They have wings.
C. They have three pairs of legs..
D. They have feathers as body covering..

(1) B only
(2) A and B only
(3) A, B and C only
(4) B, C and D only

6. Which of the following statement(s) is/are true about all fungi?

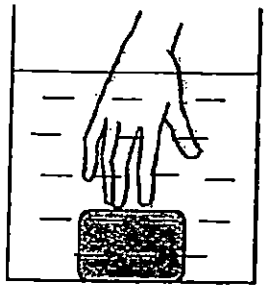
A. They can be seen with the naked eye.
B. They cannot make their own food.
C. They reproduce through spores.

(1) A only
(2) B only
(3) A and C only
(4) B and C only

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7. Zoey pushed a block to the bottom of a tank filled with water as shown in the diagram below.

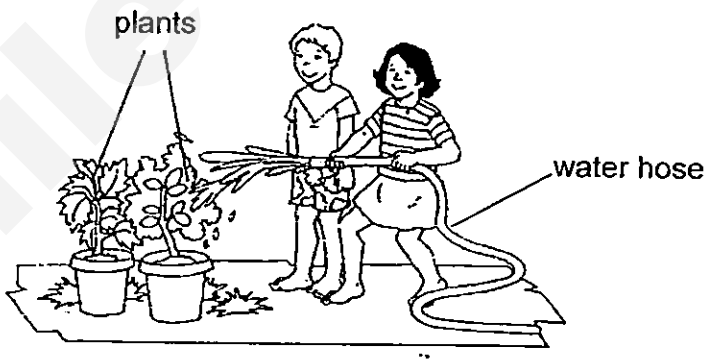


When she removed her hand, she observed that the block moved upwards to the surface of the water

Based on her observation, which property of material is she observing?

(1) Strength
(2) Waterproof
(3) Transparency
(4) Ability to float or sink in water

8. Sarah and Peter used a water hose to water the plants in the garden. The water hose is made of rubber.



Which of the following reasons best explain (s)why rubber is used for the water hose?

A. It is flexible.
B. It is waterproof.
C. It breaks easily.

(1) A only
(2) C only
(3) A and B only
(4) B and C only

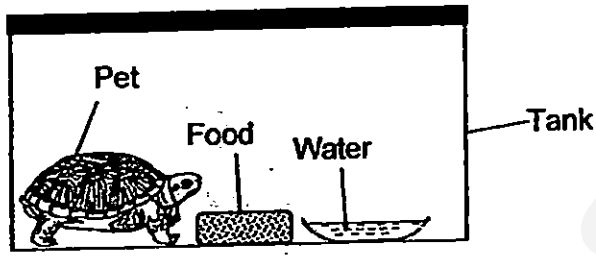
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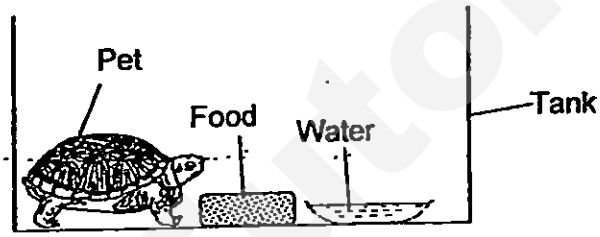
9. Kathy set up four tanks for her pets as shown in the diagrams below. After one week, only one of the pets was still alive.

Which one of the pet will most likely be alive after one week?

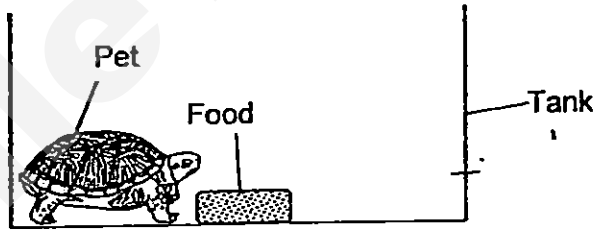
(1)



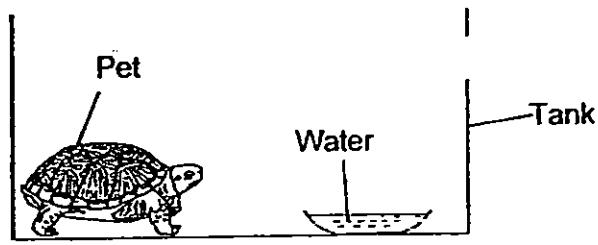
(2)



(3)



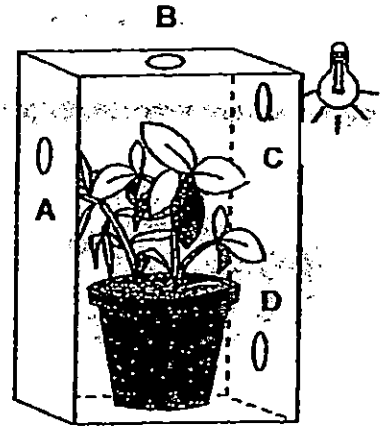
(4)



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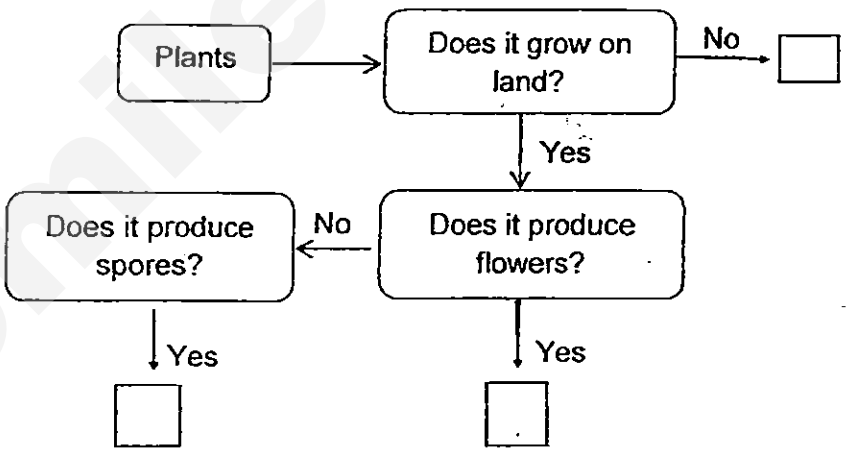
10. Dennis placed a plant in a black cardboard box and made four holes A, B, C and D to allow light to enter as shown in the diagram below.



After one week, which hole would the plant most likely grow towards?

(1) A
(2) B
(3) C
(4) D

11. Study the flow chart below.



Based on the information above, which one of the following correctly represents letters N, O and P?

	N	O	P
(1)	Flowering plant	Water plant	Non flowering plant
(2)	Non flowering plant	Flowering plant	Water plant
(3)	Water plant	Non flowering plant	Flowering plant
(4)	Flowering plant	Non - Flowering plant	Water plant

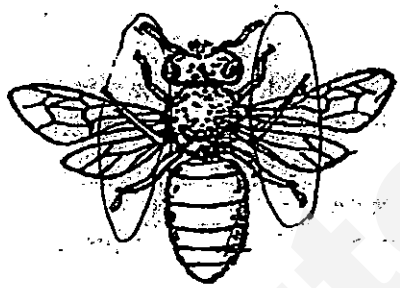
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12. Heidi recorded the characteristics of 4 animals A, B, C and D which she saw in a field in the table below.

	Animal			
Characteristics	A	B	C	D
Does it have wings?	Yes	Yes	No	Yes
Does it have six legs?	Yes	Yes	Yes	No
Does it have three body parts?	Yes	No	Yes	Yes

The diagram below shows one of the animals that she saw in the field.



Which of the following was the animal that Heidi saw in the field?

(1) Animal A
(2) Animal B
(3) Animal C
(4) Animal D

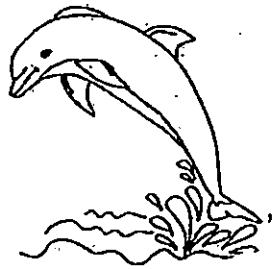
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13. The diagrams below show two mammals.



cat

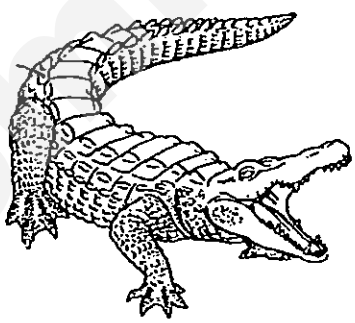


dolphin

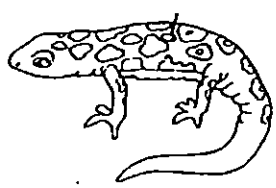
Based on the diagrams and what you know about mammals, which of the following is correct about the cat and the dolphin?

	Similarity	Difference
(1)	They live in the same environment.	Cats give birth to live young but dolphins lay eggs.
(2)	They feed their young with milk.	Cats live on land but dolphins live in water.
(3)	They give birth to live young.	Cats have hair but dolphins do not.
(4)	They have hair.	Cats feed their young with milk but dolphins do not.

14. The diagrams below show two animals A and B.



Animal A



Animal B

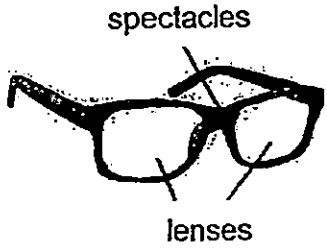
Animals A and B belong to different animal groups.
Which of the following statements is true about Animal A and B?

(1) Both animals A and B live on land only.
(2) Animal A has scales but Animal B has moist skin.
(3) Both animals A and B breathe through lungs only.
(4) Animal A gives birth to young alive but Animal B lays eggs.

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15. Ahmad is careless and drops his spectacles easily. He prefers to use spectacles lenses made of plastic instead of glass.



Which one of the following is the reason for Ahmad to use plastic lenses instead of glass?

(1) Plastic is flexible.
(2) Plastic is waterproof.
(3) Plastic does not break easily.
(4) Plastic allows light to pass through.

END OF BOOKLET A

GO ON TO BOOKLET B

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MAHA BODHI SCHOOL

2015 SEMESTRAL ASSESSMENT 1

PRIMARY THREE SCIENCE

Name : _____( )

Class : Primary 3 ( ).

Duration : 1 h 15 min (Booklets A and B)

Date : 14 May 2015

Parent's signature: _____

Booklet A	30
Booklet B	20
Total	50

BOOKLET B [20 marks]

For questions 16 to 22, write your answers in this booklet.

The number of marks available is shown in the brackets [ ] at the end of each question or part-question.

16. (a) Study the following statements in the table shown below. Circle "True" or "False" against each statement in the boxes provided. [2]

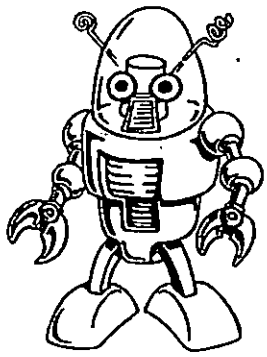
	Statements	Circle the correct answer
(i)	Some non-living things can grow.	True / False
(ii)	Non-living things cannot reproduce.	True / False
(iii)	Living things need air, food and water.	True / False
(iv)	Living things respond to changes around them.	True / False

Marks : ____

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(b) Fandi went to the Science Centre and saw a robot as shown in the diagram below. The robot is able to move and speaks to visitors when they talk to it.



"This robot is alive and it can move! It is a living thing!" exclaimed Fandi. His teacher shook his head in disagreement and said that the robot is not a living thing.

(i) Why did Fandi say that the robot is a living thing? [1]

_____

_____

(ii) Explain why Fandi's teacher disagreed with him. [1]

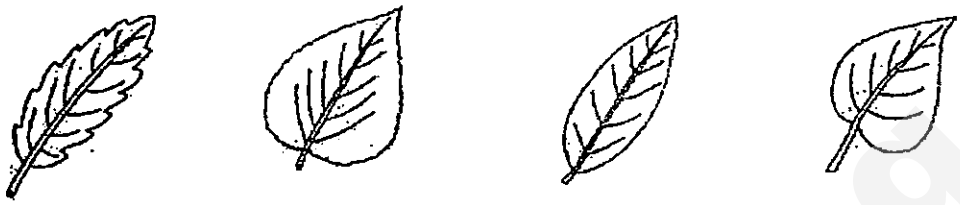
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_____

Marks : ____ / 2

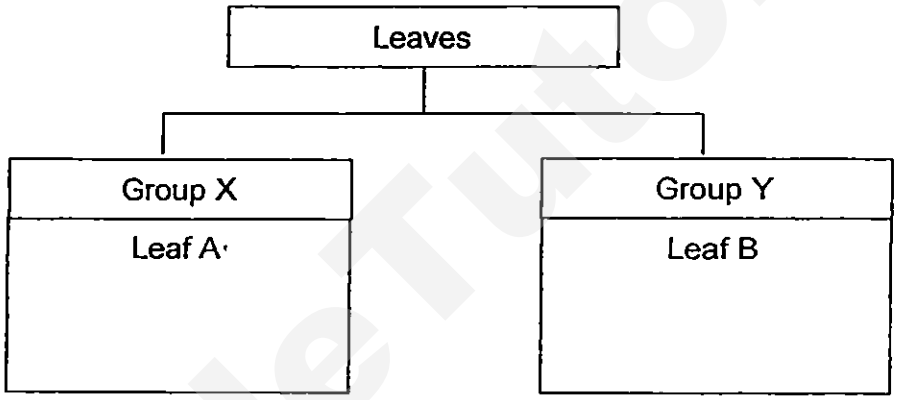
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17. The diagram below shows 4 leaves.



Leaf A Leaf B Leaf C Leaf D

Leaf A and Leaf B are classified as shown in the classification chart below.



(a) Classify Leaf C and Leaf D into the two groups. Write "Leaf C" and "Leaf D" in the chart above. [1]

(b) What characteristics of leaves A, B, C and D were used to classify them in the chart above? [1]

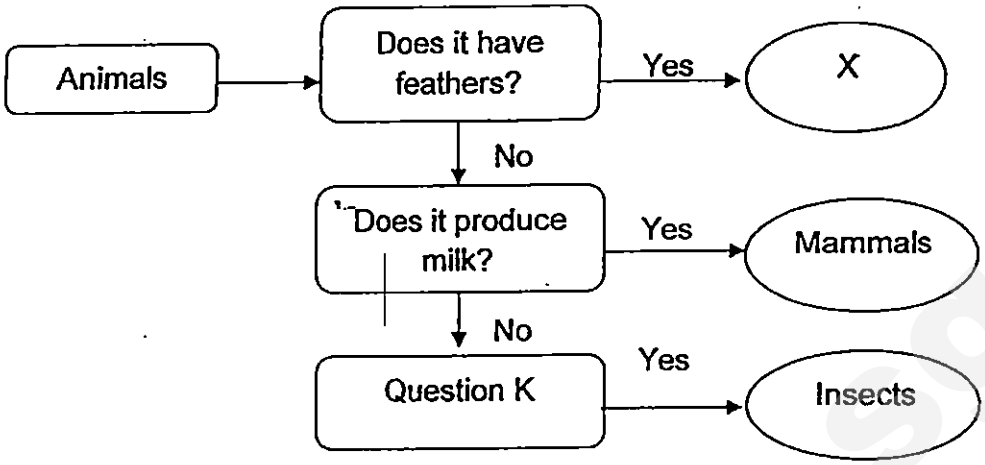
_____

Marks : / 2

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18. Study the flowchart below



(a) (i) Which animal group can X possibly be? [1]

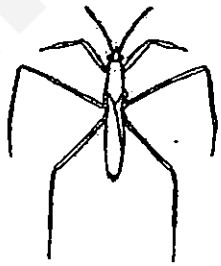
_____

(ii) Write a possible question for Question K. [1]

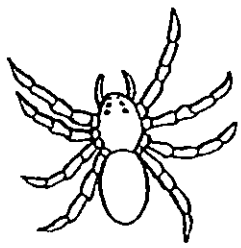
Does it have _____

_____?

(b) Study the diagram below carefully.



Animal A



Animal B

Compare animal A and B, explain why Animal B is not classified into the same group as A. [2]

_____

_____

Marks : / 4

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19. Study the diagram of an amphibian below.



frog

(a) State two common characteristics of amphibians. [2]

(i) _____

_____

(ii) _____

_____

(b) The animals below belong to two main groups based on their common characteristics.



bird



bat

State two differences in these common characteristics of the two animals. [2]

(i) _____

_____

(ii) _____

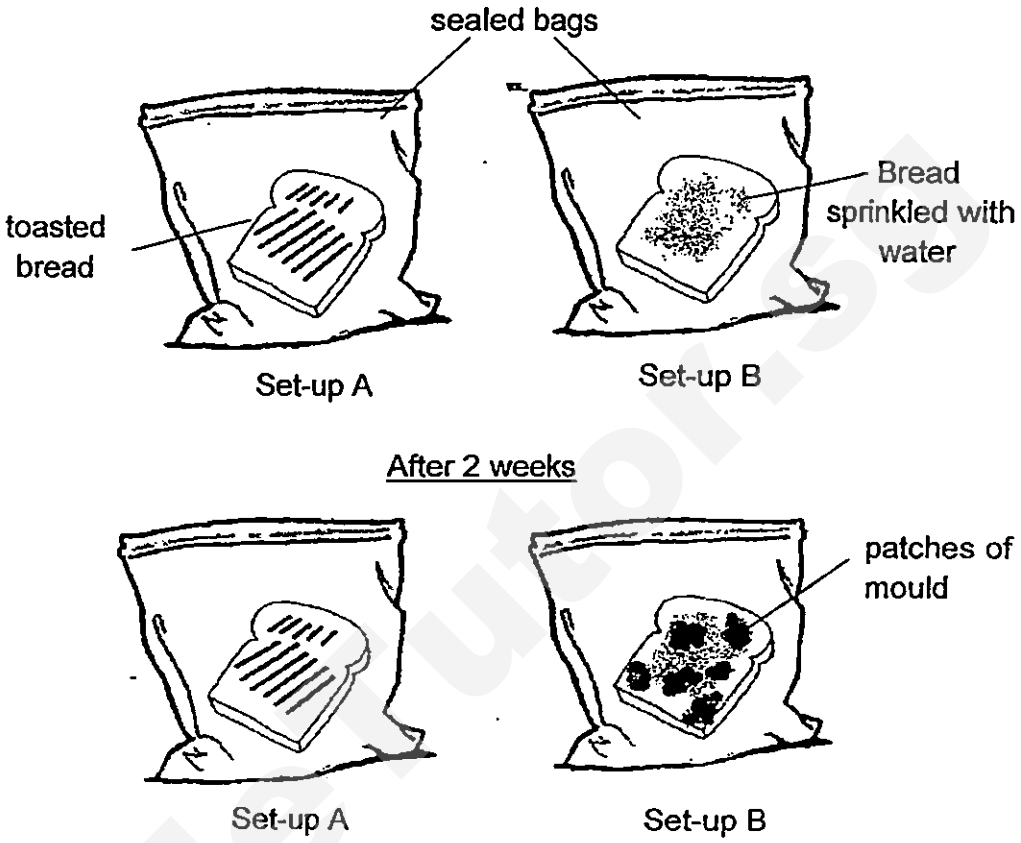
_____

Marks : / 4

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20. Matthew carried out an experiment using two slices of bread in two set-ups A and B. He toasted a slice of bread and placed it in set-up A and sprinkled some water on the other slice of bread as shown in set-up B below.



After 2 weeks, he noticed patches of mould growing on the bread in set-up B while nothing grew on the bread in set-up A.

(a) Which group of living things does mould belong to? [1]

_____

(b) Explain why mould grew in set-up B instead of set-up A. [1]

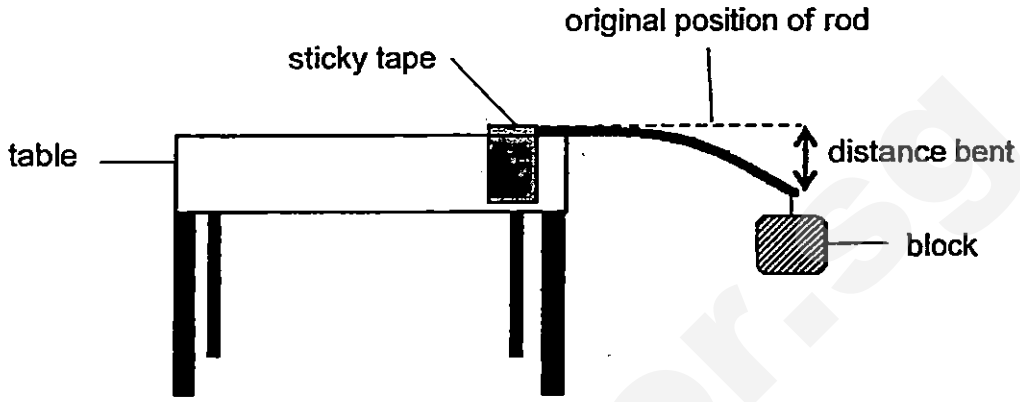
_____

_____

Marks : / 2

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21. Raja conducted an experiment on a rod made of unknown material. The rod is taped firmly on edge the table top. When a block is hung at the end of the rod, the rod bent as shown in the diagram below.



(a) Which property of the material is Raja testing? [1]

(b) Raja repeated the experiment with 3 rods made of different materials Q, R and S. He recorded the distance bent by each rod using the same block in the table below.

Material	Distance bent (cm)
Q	3
R	6
S	5

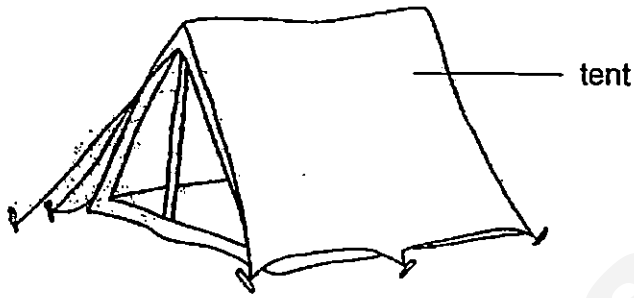
From the results, what can Raja tell about the property of the materials of the three rods? [1]

Marks : /2

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22. Jason sets up a tent using a material that does not tear easily as shown in the diagram. The tent protects him from getting wet when it rains. The tent is light and it can be folded into a small bag easily.



(a) Name a material which can be used to make the tent. [1]

_____

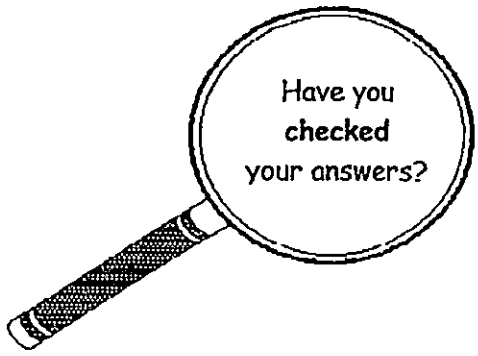
(b) Apart from being light, state two other useful properties that the material in (a) should have which makes it suitable to be used for making a tent. [1]

(i) _____

(ii) _____

Marks : / 2

~ END OF PAPER ~



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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : MAHA BODHI SCHOOL
SUBJECT : SCIENCE
TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	2	4	1	4	4	3	2	3
Q11	Q12	Q13	Q14	Q15					
2	1	2	2	3					

Q16ai) FALSE Q16aii) TRUE Q16aiii) TRUE Q16aiv) TRUE
Q16bi) It can move and talk to visitors when they talk to it.
Q16ii) The robot cannot grow / reproduce / need air, food and water.
Q17a. Group X - Leaf C 17a. Group Y – Leaf D
Q17b. They are classified according to the shape of the leaf.
Q18ai) Bird Q18aii) Does it have three body parts.
Q18b. Animal A has six legs but animal B has eight legs.
Q19ai) They have moist skin. Q19aii) They live in both land and in water.
Q19bi) The bird lay eggs but the bat gave birth to young.
Q19bii) The bird has feathers while the bat does not have feathers.
Q20a. Fungi Q20b. Set up B has more water than set up A. Mould needs water to grow.
Q21a. Flexibility or Flexible. Q21b. Material R bend the most.
Q22a. Rubber Q22bi) It is flexible Q22bii) It is waterproof.

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MARIS STELLA HIGH SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 1

SCIENCE

13 MAY 2015

BOOKLET A

NAME: _____ ( )

CLASS: Primary 3 ( )

20 questions

30 marks

Total Time for Booklets A & B: 1 h

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

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For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. Questions 1 to 10 carry 1 mark each. Questions 11 to 20 carry 2 marks each.

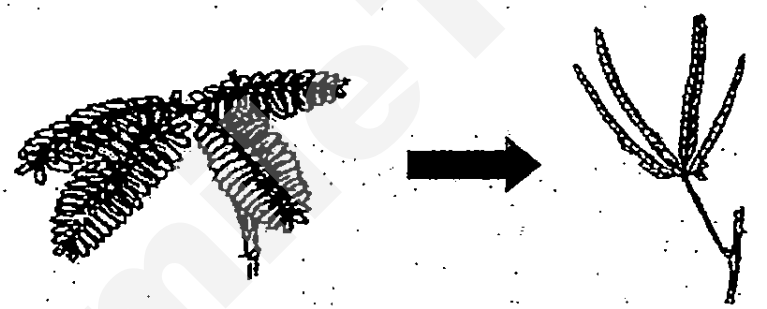
---

1 Which of the following reproduce(s) from spores?

A Mango tree
B Mushroom
C Bird's nest fern

(1) A only
(2) B only
(3) A and C only
(4) B and C only

2 The pictures below show how the mimosa plant looks before and after it is touched.



Before **After**

The observation made above shows that living things _____.

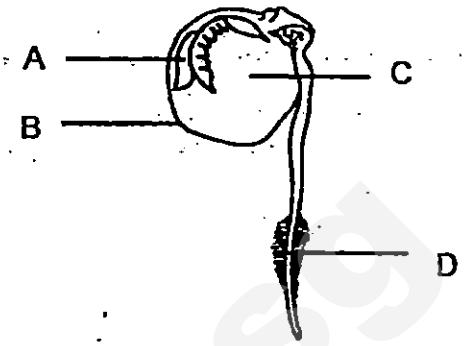
(1) will die
(2) can reproduce
(3) need air, food and water
(4) respond to changes around them

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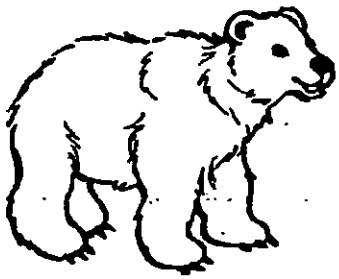
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3 The diagram on the right shows a germinating seed.
Where does the germinating seed get its food from?

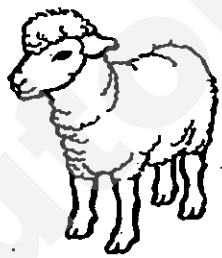
(1) A
(2) B
(3) C
(4) D



4 Jerald observed the pictures of Animal A and B as shown below.



Animal A



Animal B

After looking at the pictures, Jerald said that they are mammals.

Which of the following characteristics help Jerald to conclude that they are mammals?

(1) The number of legs
(2) The food that they eat
(3) The places that they live in
(4) The outer covering of the animals

5 Plants and animals are similar because they _____.

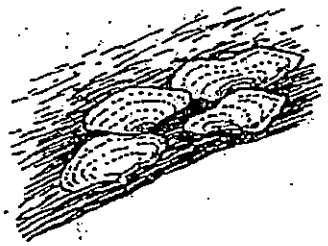
(1) lay eggs
(2) can grow
(3) can make their own food
(4) can move from one place to another place

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6. Compare the bracket fungus and bird nest's fern.



Bracket Fungus

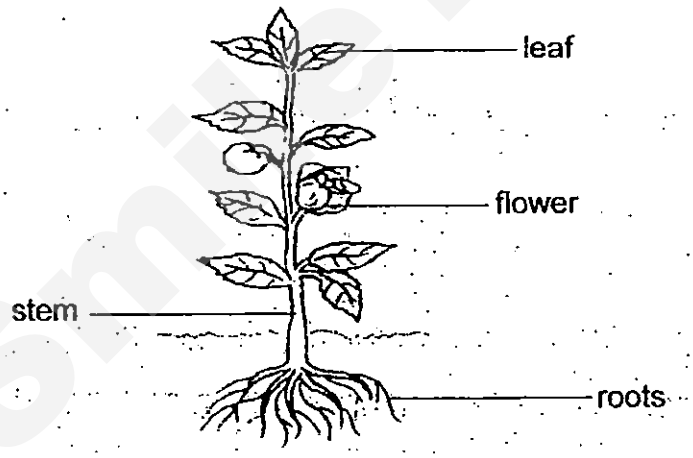


Bird Nest's Fern

Which one of the following statements is incorrect ?

(1) Both contain spores.
(2) Both feed on dead animals.
(3) Both are non-flowering plants.
(4) Both do not need sunlight to make food.

7 Study the diagram of the plant below.



Which of the plant part is **not** found in all plants?

(1) leaf
(2) stem
(3) roots
(4) flower

(Go to the next page)

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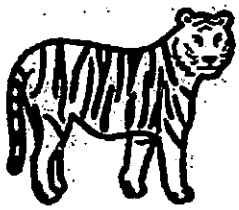
8 The four animals below are grouped together.



Deer



Spiny anteater



Tiger



Penguin

Mrs Lim asked her students to pick the animal which does not belong to the same group as the others. The table below shows their choices and reasons.

Who has correctly identified the animal and reason for his choice?

	Student	Animal that <u>does not</u> belong in the group	Reason
(1)	Alex	Tiger	It is an animal-eater.
(2)	Ben	Deer	It has fur on its body.
(3)	Clement	Spiny anteater	It reproduces by laying eggs.
(4)	Derek	Penguin	It has feathers as outer body covering.

9 Which one of the following statements about bacteria is correct?

(1) Bacteria do not die.

(2) Bacteria are not living things.

(3) Bacteria can only be seen under a microscope.

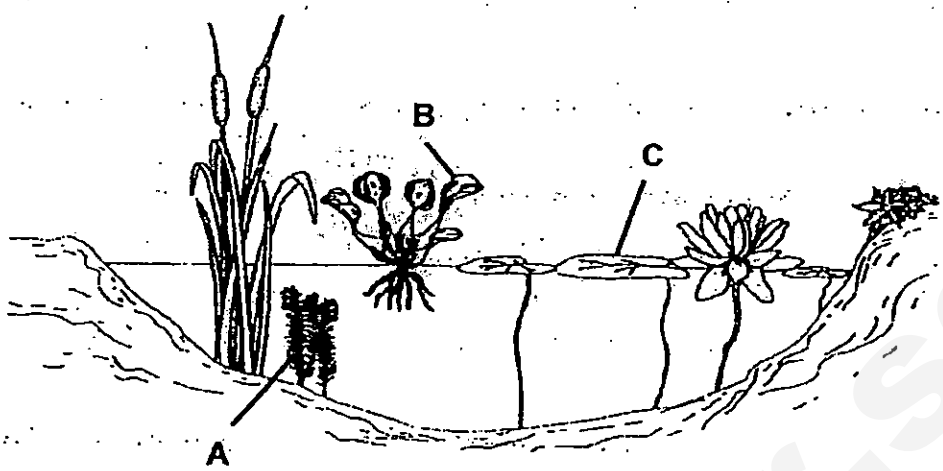
(4) Bacteria do not respond to changes around them.

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10 Study the diagram below.



Which of the following correctly describes each aquatic plant?

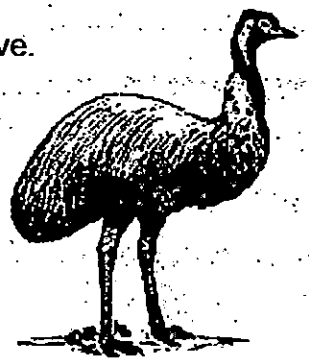
	A	B	C
(1)	Partially submerged	Floating	Floating
(2)	Partially submerged	Partially submerged	Floating
(3)	Fully submerged	Partially submerged	Partially submerged
(4)	Fully submerged	Floating	Partially submerged

11 Some students made the following four comments on an emu.

A It is a bird because it has two legs.
B It is a bird because it has feathers.
C It is not a bird because it cannot fly.
D It is a bird because it gives birth to young alive.

Which of the above comments are correct?

(1) A only
(2) B only
(3) A and B only
(4) C and D only



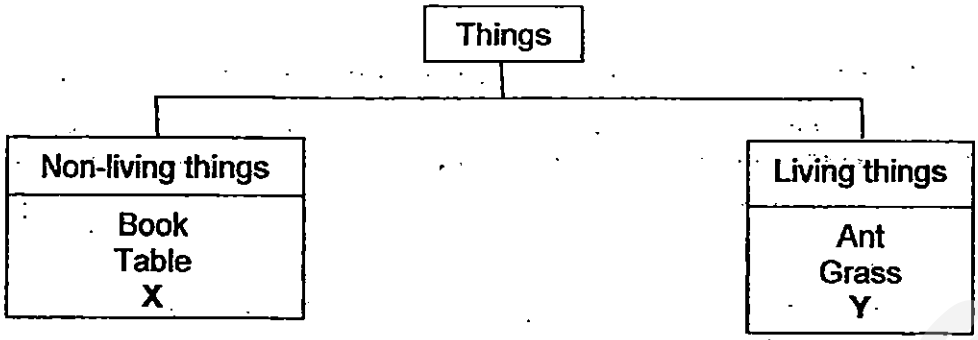
Emu

(Go to the next page)

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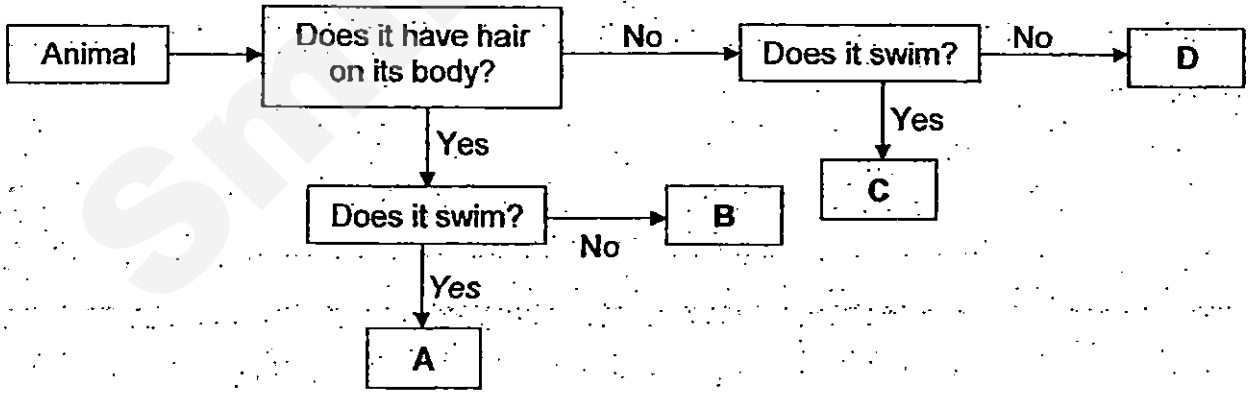
12. Study the classification chart below.



What could **X** and **Y** be?

	X	Y
(1)	Cow	Car
(2)	Duck	Pig
(3)	Car	Cow
(4)	Jacket	Stone

13 Study the flow chart below.



Which of the following letter represents a rabbit?

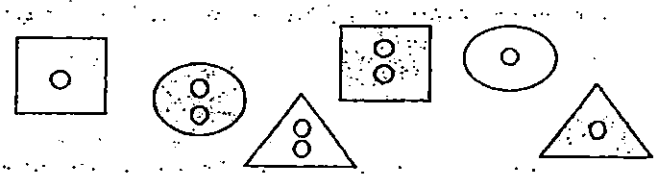
(1) A
(2) B
(3) C
(4) D

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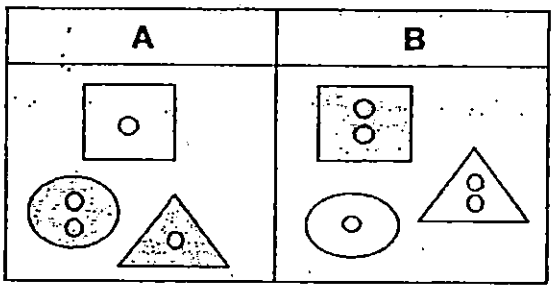
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14 Some buttons of the same size were classified.

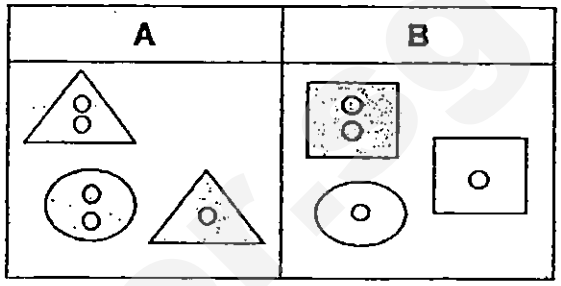


Which of the following classification chart show a possible way of classifying the buttons?

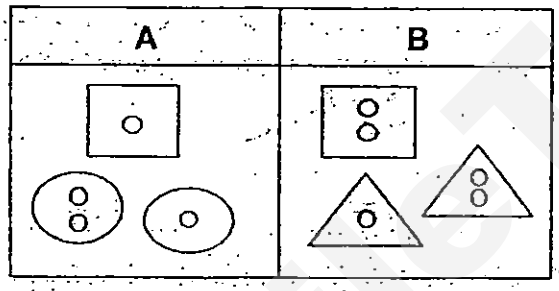
(1)



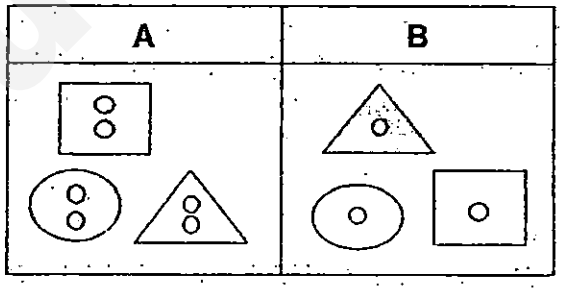
(2)



(3)



(4)



15 The diagram below shows organism A.



Organism A

Z is found on the gills of organism A. What is the function of Z?

(1) It helps organism A to reproduce.

(2) It helps organism A to make food.

(3) It helps organism A to grow bigger.

(4) It helps organism A to take in water.

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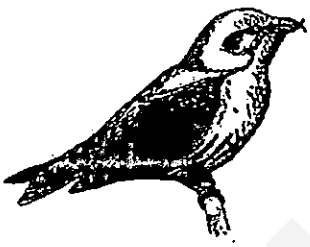
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16 Which of the following characteristic(s) can we use to tell an animal apart from a plant?

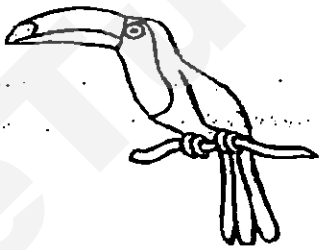
A An animal needs air but a plant does not.
B An animal cannot make its own food but a plant can.
C An animal can move on its own but a plant does not.
D An animal can respond to changes but a plant cannot.

(1) C only
(2) A and D only
(3) B and C only
(4) A, C and D only

17 Study birds X and Y below.



Bird X



Bird Y

Based on the pictures above, what is the similarity and difference between the two birds?

	Similarity	Difference
(1)	Both have wings.	Bird X lays eggs but bird Y gives birth to young alive.
(2)	Both have a tail.	Bird X has a short beak but bird Y has a long beak.
(3)	Both lay eggs.	Bird X has longer legs than bird Y.
(4)	Both have a long beak.	Bird X can fly but bird Y cannot fly.

(Go to the next page)

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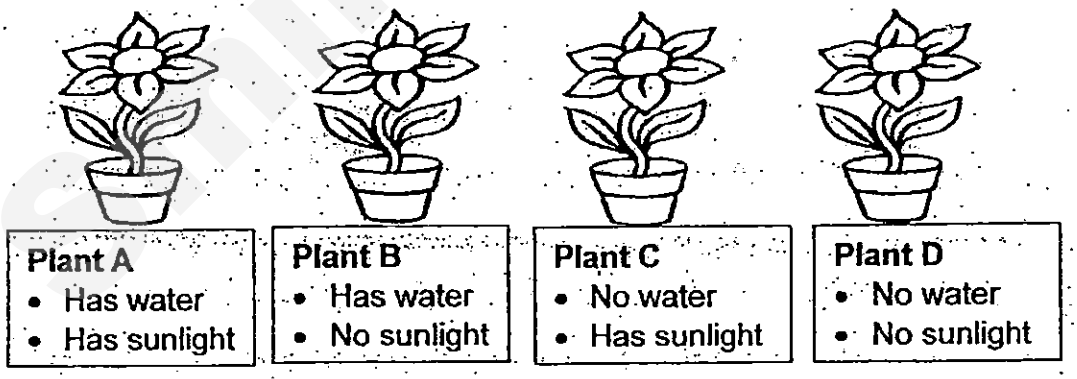
18 The table below shows the characteristics of Organisms A, B and C.
A tick (✓) indicates the presence of the characteristic.

Characteristics	Organism A	Organism B	Organism C
Respond to changes around them	✓	✓	✓
Can reproduce	✓	✓	✓
Moves from place to place		✓	
Produce its own food	✓		

Based on the information provided in the table above, which of the following correctly identify organisms A, B and C?

	Organism A	Organism B	Organism C
(1)	Plant	Fungi	Animal
(2)	Plant	Animal	Fungi
(3)	Fungi	Animal	Plant
(4)	Animal	Plant	Fungi

19 Jerry planted four plants, A, B, C and D, into four identical pots and exposed them to different amount of water and light as shown below.



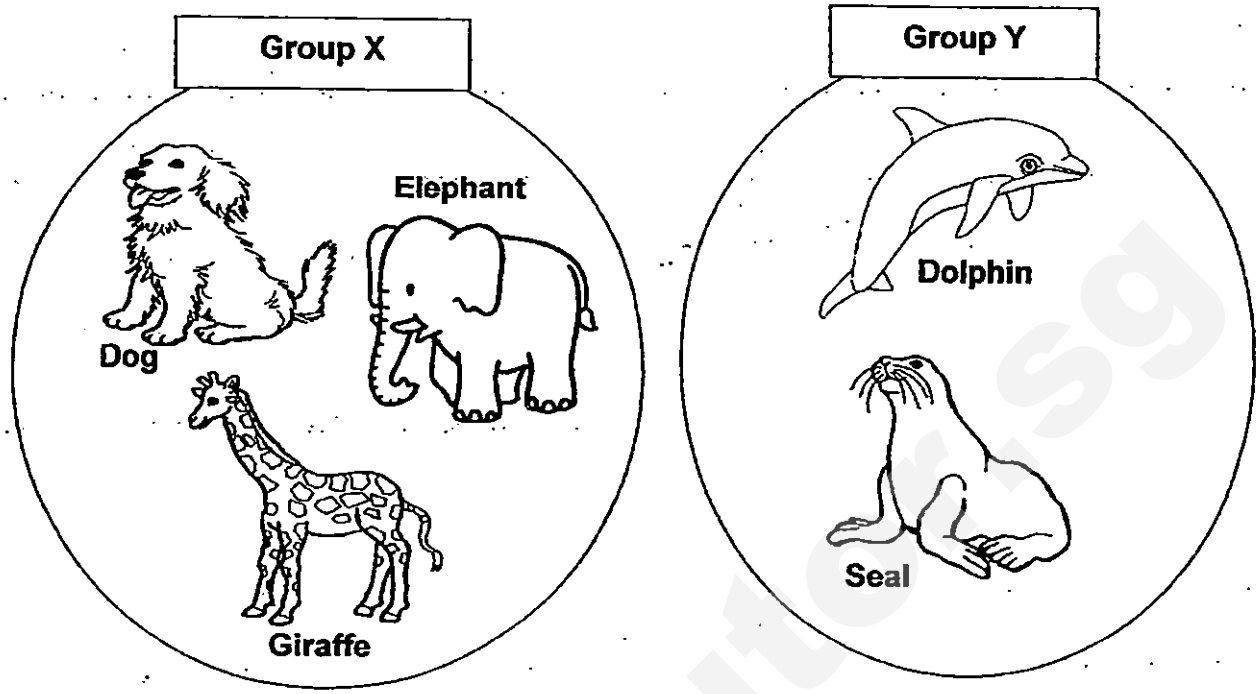
Which one of the plants will survive the longest?

(1) Plant A
(2) Plant B
(3) Plant C
(4) Plant D

(Go to the next page)

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20 Study the pictures below.



The animals in Group X and Group Y are classified according to _____.

(1) what they eat
(2) where they live
(3) their outer covering
(4) how they reproduce

End of Booklet A

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MARIS STELLA HIGH SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 1

SCIENCE

13 MAY 2015

BOOKLET B

NAME: _____ ( )

CLASS: Primary 3 ( )

8 questions

20 marks

Total Time for Booklets A & B: 1 h

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.

BOOKLET A:	_____ / 30
BOOKLET B:	_____ / 20
TOTAL:	_____ / 50

PARENT'S SIGNATURE: _____

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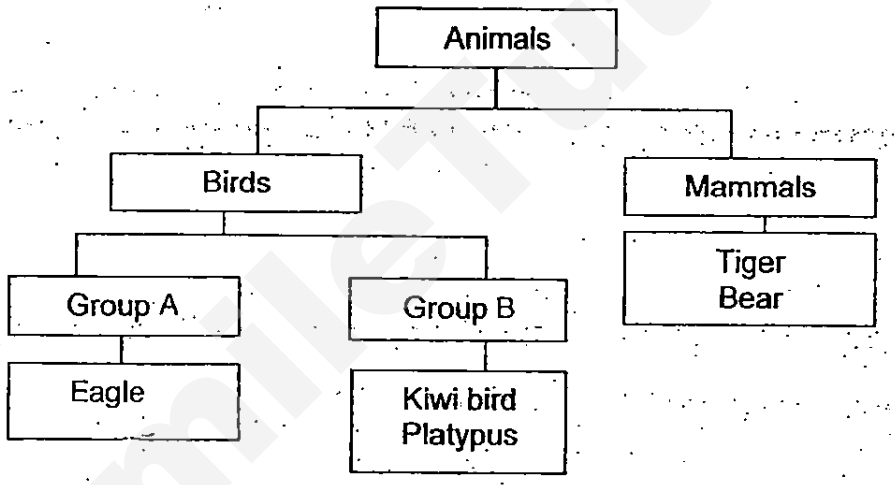
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For questions 21 to 28, write your answers in the space provided. The marks for each question is shown in the brackets [ ] at the end or each question. (20 marks)

21 Write 'True' or 'False' in the space provided for the following statements. [2]

	Statements	True / False
(a)	Living things will die.	
(b)	Bat is a bird as it can fly.	
(c)	Mushroom is a non-flowering plant.	
(d)	A car is a living thing as it can move from one place to another place.	

22 Study the classification chart given below.



(a) What is a suitable heading for Group A and Group B? [1]

Group A: _____

Group B: _____

(b) Which one of the animals is classified wrongly? _____ [1]

	4

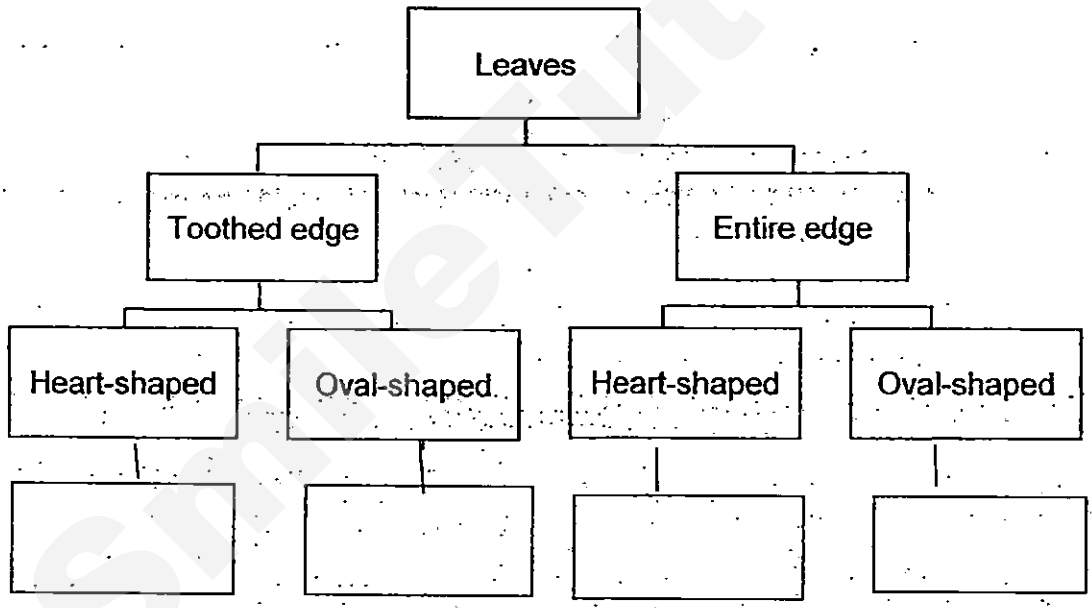
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23 Study leaves A, B, C and D below.

Leaf A	Leaf B	Leaf C	Leaf D
			

Complete the classification chart by filling in Leaf A, B, C and D in the boxes provided. [2]



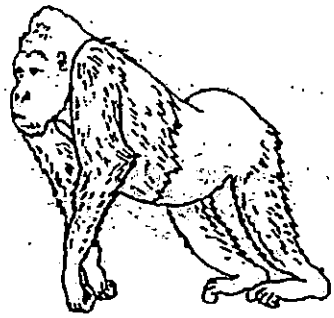


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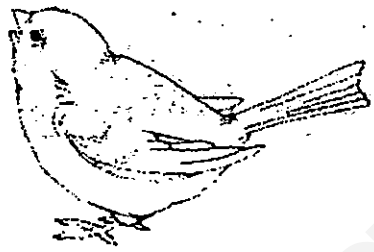
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24 Study the 2 animals shown below.



Animal A



Animal B

(a) **Based only on your observations** of the animals above, state 2 **differences** between animals A and B. [2]

(i) _____

_____

(ii) _____

_____

(b) State an animal that has the same method of reproduction as animal A. [1]

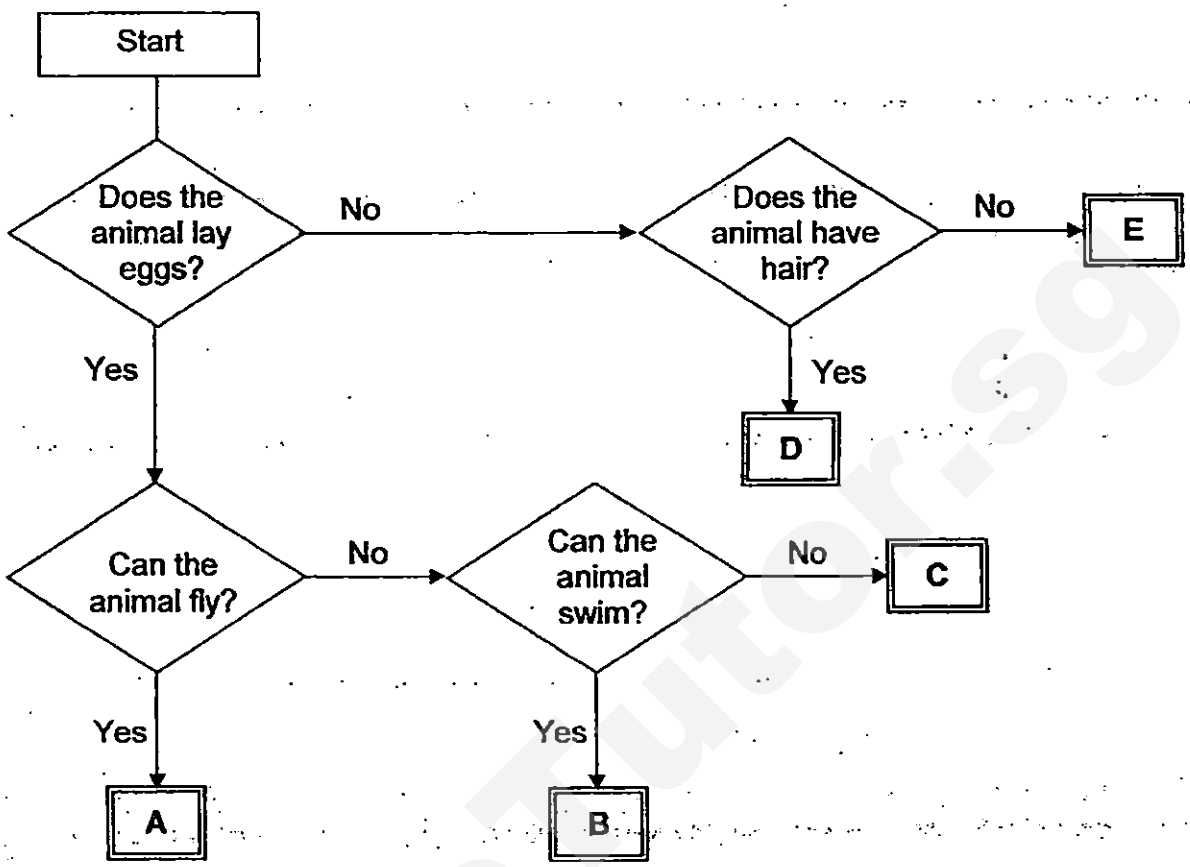
_____

	3

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25 Study the flow chart below.



(a) Match each animal below with a correct letter (A, B, C, D or E) in the flow chart. [1]

ANIMAL	LETTER
Ostrich	
Elephant	

(b) Based on the chart above, state one similarity between animal A and animal B. [1]

(c) Based on the chart above, describe animal E. [1]

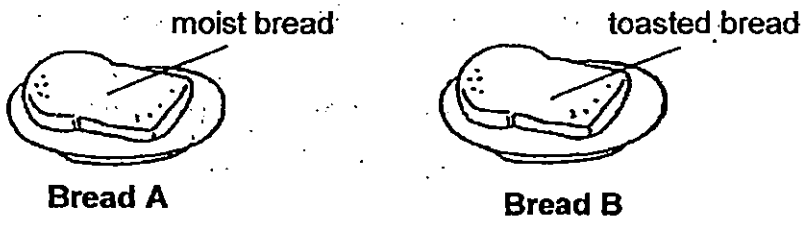
3

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26 Tom placed a piece of moist bread and a piece of toasted bread in his kitchen as shown below.



Bread A **Bread B**

(a) State the conditions that the mould needs in order to grow. [1]

_____

(b) Which piece of bread (A or B) will turn mouldy first? [1]

_____

(c) Give a reason for your answer in (b). [1]

_____

_____

3

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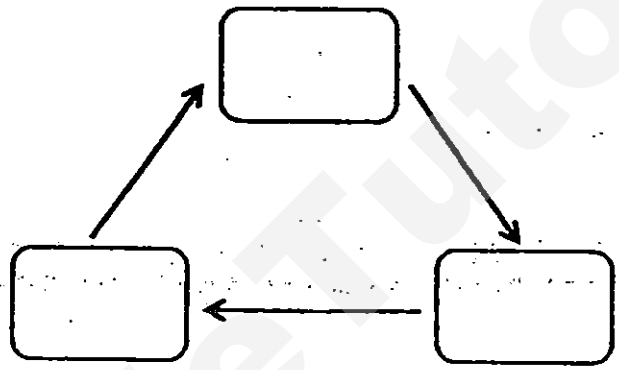
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27 Study the pictures of the different stages of Plant A below.



P Q R

(a) Fill in the boxes with **P**, **Q** and **R** to show the life cycle of Plant A. [1]



(b) Which part of the plant will grow first when a seed germinates? [1]

(c) Give a reason why life cycles are important. [1]

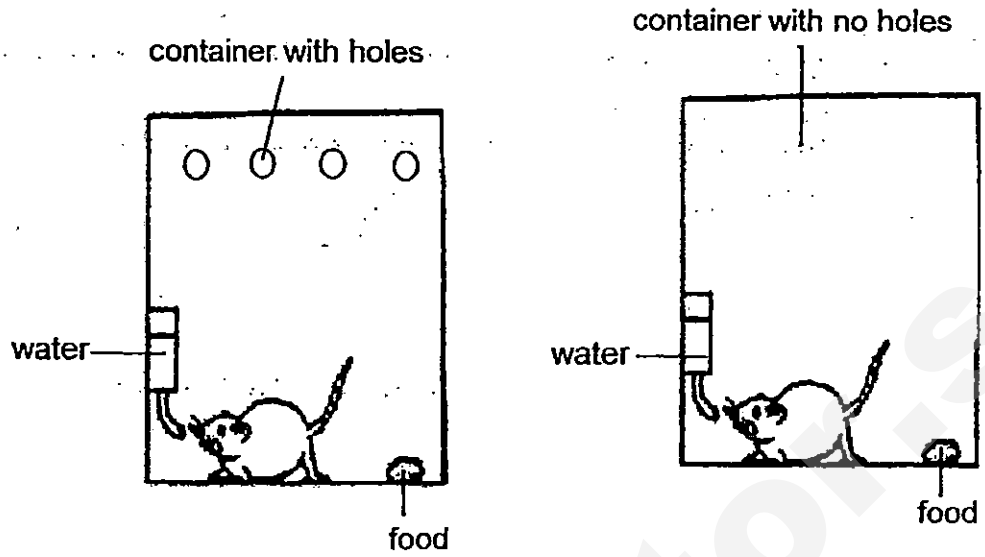
3

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28 In an experiment, a mouse was kept in two separate containers as shown below.



(a) In which container will the mouse survive longer? Tick (√) the correct box. [1]

Container with holes	
Container with no holes	

(b) What characteristic of living things does the above experiment show? [1]

_____

_____

End of Booklet B

	2

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : MARIS STELLA HIGH SCHOOL
SUBJECT : SCIENCE
TERM : SA1

BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	4	3	4	2	1	4	4	3	4
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	3	2	4	1	3	2	2	1	2

BOOKLET B – SEE ATTACHED ANSWER.

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PRIMARY THREE

Maris Stella High School (Primary)
2015 Science SA 1

Booklet B

Qn	Suggested Answers
21	(a) True (b) False (c) False (d) False
22	(b) Playtus
23	B C A D

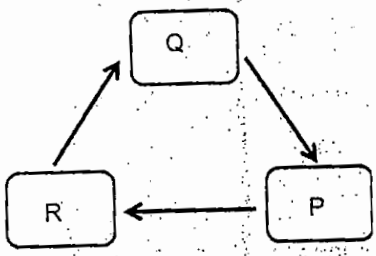
Q22
a)
Group A: can fly
Group B: cannot fly
b) platyous

24	(a) Animal A has 4 legs but animal B has 2 legs./ Animal A has more legs than B Animal A has hair but animal B has a feathers. /Animal B has a beak but animal A does not have. Animal B has wings but animal A has no wings./ Animal B has a tail but animal A has no tail. (b) guppy, dog, sheep, cow, horse, etc (any animal that gives birth to young alive.)
25	(a) Ostrich: C Elephant: D (b) Both lay eggs. (c) Animal E **does not lay eggs / gives birth to young alive(0.5m)** and **have no hair.**

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26	(a) The mould needs **air** (oxygen), **water** and **warmth** to grow (b) A (c) There is **moisture** (water) in the **bread** . / The **bread** has **water** for the mould to grow.
27	(a)  (b) Roots (c) Life cycles ensure the **continuity of the species** / its own kind. / Living things will not become extinct.
28	(a) tick the container with holes (b) Living things need **air** to **survive**.

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METHODIST GIRLS' SCHOOL

Founded in 1887

SEMESTRAL ASSESSMENT 1 2015
PRIMARY 3
SCIENCE

BOOKLET A

Total Time for Booklets A and B: 1 hour 20 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.

Name: _____( )

Class: Primary 3_____

Date : 14 May 2015

This booklet consists of 12 printed pages including this page.

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For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet (OAS). [40 marks]

---

1. Sophia went to the beach and saw some things there. She classified them into 2 groups as shown in the table below.

Group A	Group B
sand	children
hats	dogs
P	Q
sea water	coconut trees

What could "P" and "Q" be?

	P	Q
(1)	rocks	lamp-post
(2)	mat	shells
(3)	drinks	seagulls
(4)	crabs	volleyballs

2. Which one of the following observations is correctly matched to the appropriate characteristic of living things?

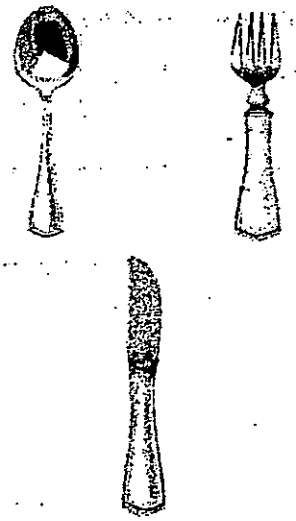
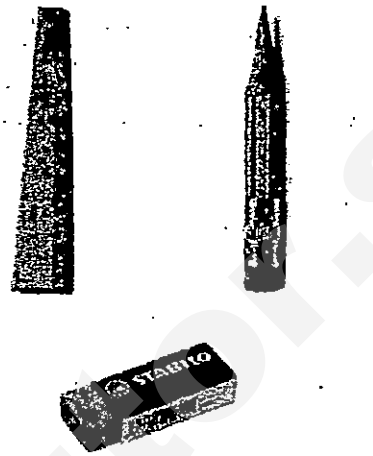
	Observations	Characteristics
(1)	A squirrel jumps from branch to branch.	Living things reproduce.
(2)	A caterpillar changes into a butterfly.	Living things grow.
(3)	A girl moves her hand away from a hot kettle of water.	Living things need air, water and food.
(4)	A tortoise lays eggs.	Living things responds to changes around them.

(Go on to the next page)

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3. Look at the objects in the two groups below.

Group X	Group Y
	

The above objects are classified according to their _____.

(1) use
(2) size
(3) shape
(4) colour

4. Which of the following statements is/are true?

A: Living things need air and food only.
B: Only animals that swim need water.
C: Non-living things cannot move by themselves.
D: Non-flowering plants cannot reproduce.

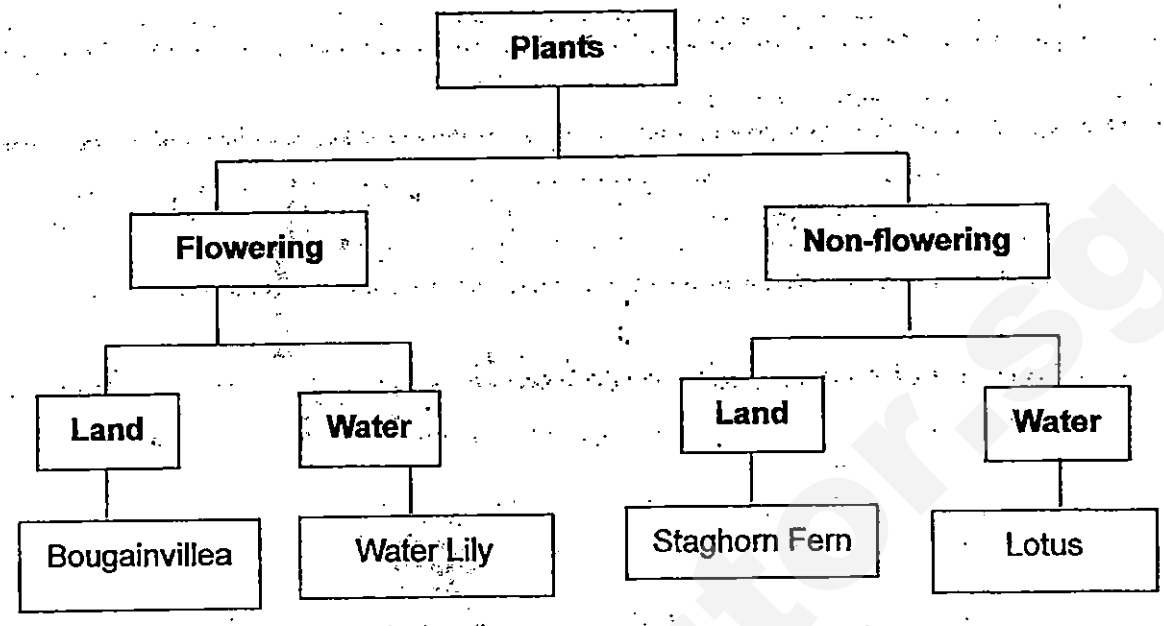
(1) B only
(2) C only
(3) A and D only
(4) B, C and D only

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5. Study the classification chart below carefully.



Which plant has been **wrongly** classified?

(1) Lotus
(2) Water Lily
(3) Bougainvillea
(4) Staghorn Fern

6. Study the table below carefully.

Organism	Does it make its own food?	Can it grow?	Does it grow or live mainly on land?	Can it move by itself?
S	Yes	Yes	Yes	No
T	No	Yes	No	Yes

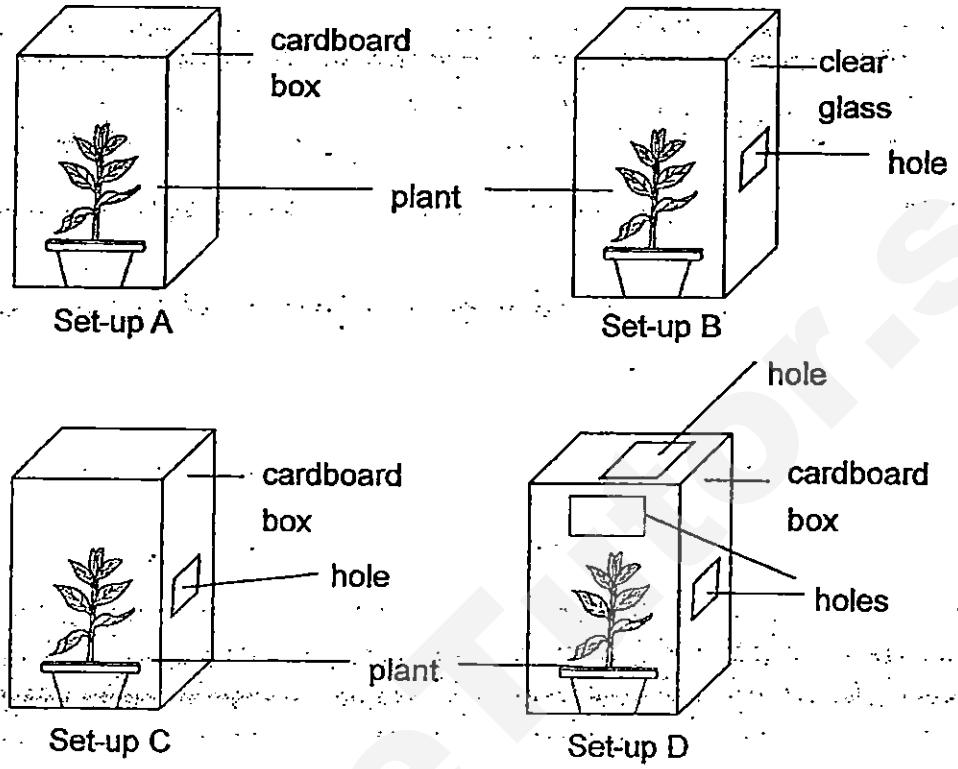
Which one of the following options represents organisms S and T correctly?

	S	T
(1)	moss	guppy
(2)	mould	tadpole
(3)	monkey	anteater
(4)	hibiscus plant	butterfly

(Go on to the next page)
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7. John wanted to find out whether plants grow towards the direction of sunlight. He prepared four set-ups, A, B, C, and D as shown below and gave equal amount of water to each pot of plant daily.



Which two of the following set-ups will be able to show the aim of John's experiment after two weeks?

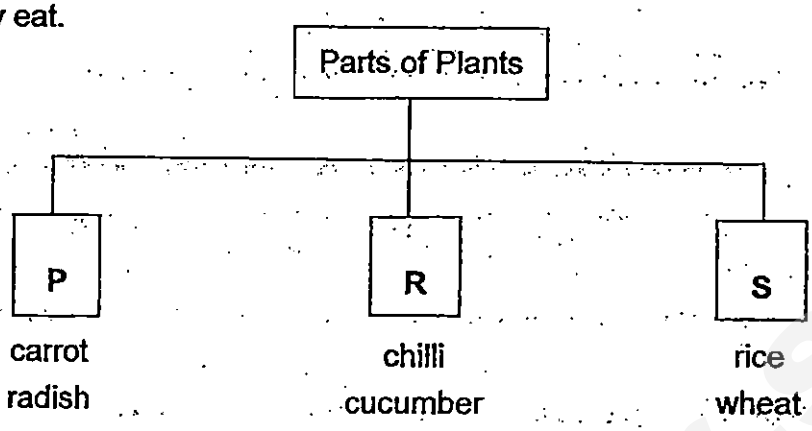
(1) Set-ups A and B
(2) Set-ups A and D
(3) Set-ups B and C
(4) Set-ups C and D

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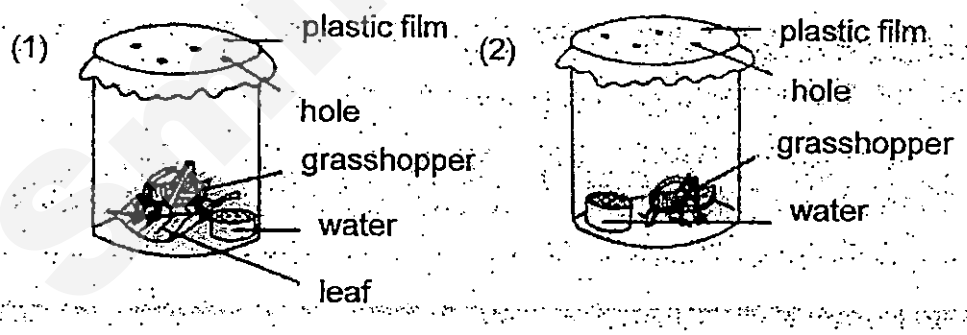
8. The plants below are classified according to the parts of the plant that we usually eat.

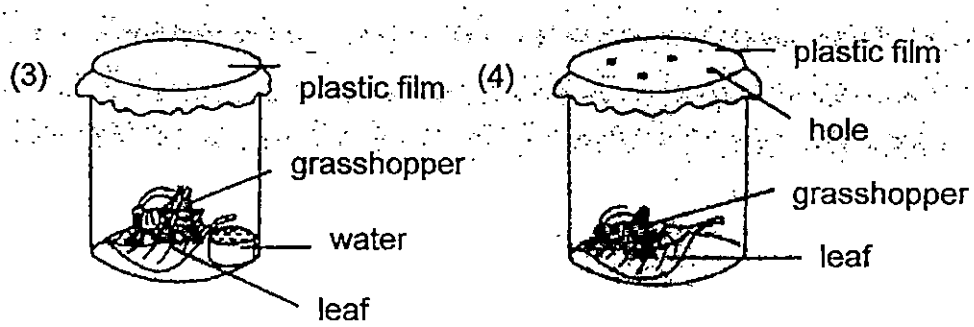


What is the correct heading for each group?

	P	R	S
(1)	Root	Seed	Fruit
(2)	Seed	Fruit	Root
(3)	Fruit	Seed	Root
(4)	Root	Fruit	Seed

9. Rashidah placed four healthy grasshoppers in four different containers. In which container will the grasshopper die first?



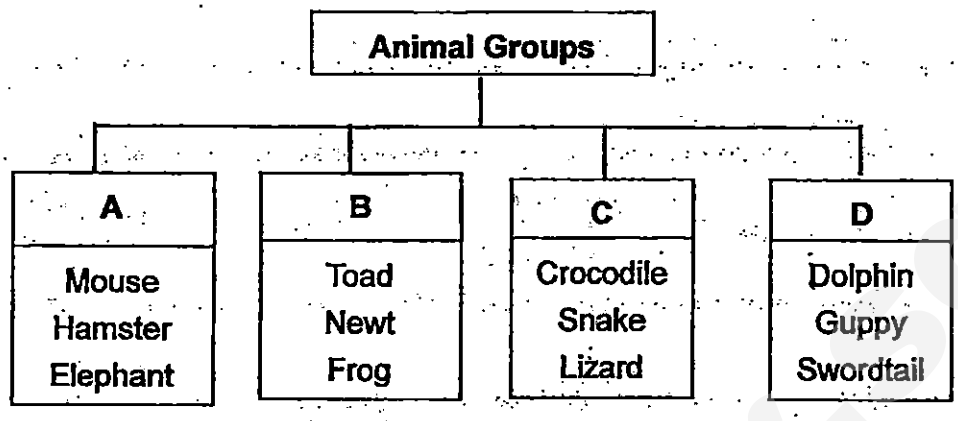


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10. Study the classification chart below.



Which one of the groups below has an animal that is classified **wrongly**?

(1) Group A
(2) Group B
(3) Group C
(4) Group D

11. Peter read a book on Animal X and listed its characteristics as shown below:
A: It lives on land only.
B: It has four legs.
C: It has hair as its outer covering.
D: Its young feed on its mother's milk.
He concluded that Animal X is a mammal.

Which of the above statements enable him to draw his conclusion?

(1) A and B only
(2) C and D only
(3) A, C and D only
(4) A, B, C and D

(Go on to the next page)

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12. Study the table given below.

	Animals		
	X	Y	Z
Does it have legs?	No	Yes	Yes
Does it live in water?	Yes	No	No
Does it fly?	No	Yes	No

Which one of the following options shows correctly what animals X, Y and Z could be?

	X	Y	Z
(1)	Gorilla	penguin	cat
(2)	prawn	whale	snail
(3)	snake	butterfly	guppy
(4)	swordtail	eagle	elephant

13. Some fungi can be seen growing on a tree as shown in the picture below.



Which one of the following statements is true about these fungi?

(1) The fungi are part of the tree.
(2) The fungi make food for the tree.
(3) The fungi obtain nutrients from the tree.
(4) The fungi climb up the tree trunk to reach for more sunlight.

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14. Which one of the following options best describes the three organisms below?

	Fungi	Bacteria	Mould
(1)	They reproduce by spores.	Some of them are useful to us.	They do not make their own food.
(2)	They do not make their own food.	They reproduce from spores.	They belong to a group of living things called fungi.
(3)	They feed on plants and animals dead or alive.	All of them are harmful to us.	They are not micro-organisms.
(4)	They are all poisonous.	They are living things.	They do not belong to a group of living things called fungi.

15. Which one of the following can be used to view bacteria?

(1)



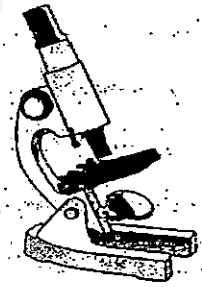
spectacles

(2)



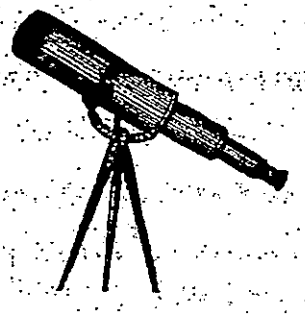
magnifying glass

(3)



microscope

(4)



telescope

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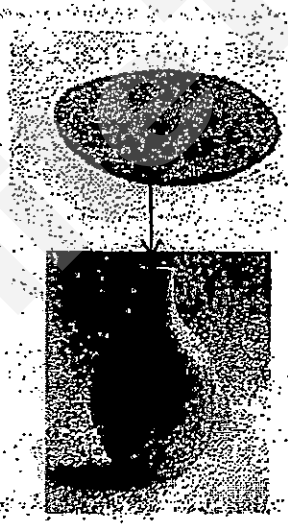
16. Nathanael has written down four statements in his science activity book as shown below before his science lesson on fungi.

Four things I know about fungi:
A: Fungi reproduce by spores. B: Puffball is a type of fungi. C: Fungi do not feed on living organisms. D: Bread mould is a type of useful fungi.

After his science lesson, which statement(s) would he identify as **incorrect**?

(1) A only
(2) C only
(3) A and B only
(4) C and D only

17. Serena flattened a ball of soft clay and remodelled the entire clay into a vase.



Which of the following properties of the clay had **not** gone through changes?

A: Mass
B: Shape
C: Absorbency
D: Transparency

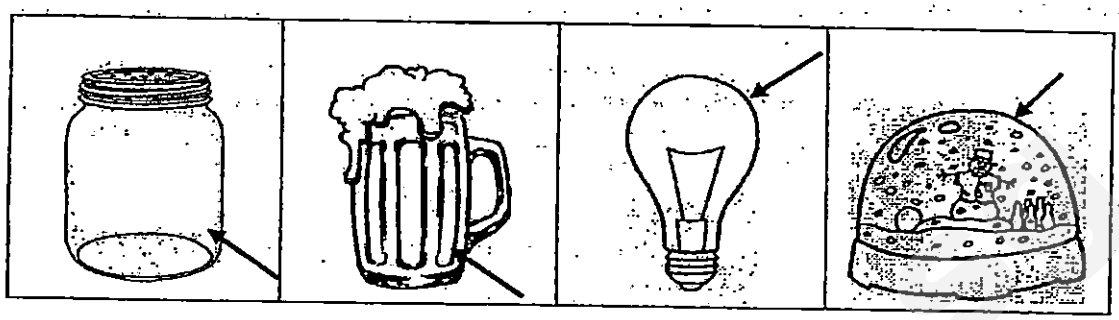
(1) B only
(2) A and B only
(3) A, C and D only
(4) A, B, C and D

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18. Material X was used to make a part of each object as shown below, as indicated by the arrows.



Jam jar | Beer mug | Light bulb | Snow globe

According to the objects made, which two important properties does Material X have that makes it suitable to make the part of each object?

A: Waterproof
B: Transparent
C: Sinks in water
D: Breaks easily

(1) A and B
(2) A and C
(3) B and D
(4) C and D

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19. Mrs Nathan is choosing a material from the table below to make a blanket for her niece.

	Material A	Material B	Material C	Material D
Able to float	Yes	No	Yes	No
Easy to wash	No	Yes	No	Yes
Able to keep warm	No	Yes	Yes	No
Light and waterproof	Yes	No	No	Yes

Which material should she choose?

(1) Material A
(2) Material B
(3) Material C
(4) Material D

20. Shania had four different materials W, X, Y and Z of the same size and thickness. She took the mass of each material before putting them into a basin of water. She took the mass of each material again after 30 minutes. She then recorded her observations in the table below.

Material	Mass before putting into basin of water (grams)	Mass after putting into water for 30 minutes (grams)
W	5	5
X	8	11
Y	4	12
Z	9	13

Which material is most suitable to make a cloth diaper?

(1) W
(2) X
(3) Y
(4) Z

End of Booklet A

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METHODIST GIRLS' SCHOOL

Founded in 1887

SEMESTRAL ASSESSMENT 1 2015
PRIMARY 3
SCIENCE

BOOKLET B

Total Time for Booklets A and B: 1 hour 20 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.

Name: _____ ( )

Class: Primary 3_____

Date : 14 May 2015

Booklet A	40
Booklet B	20
Total	60
Parent's Signature	

This booklet consists of 10 printed pages including this page.

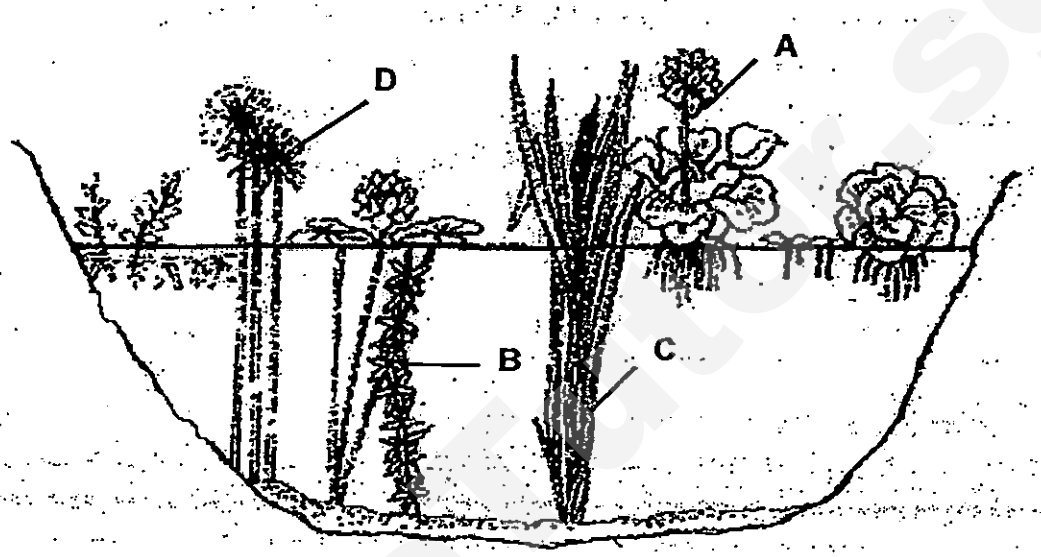
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For questions 21 to 28, write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part question.

[20 marks]

21. Aishah studied the water plants found in her school pond as shown in the picture below.



(a) Classify the plants A, B, C and D in the table below by writing the letters clearly under the correct heading. [2]

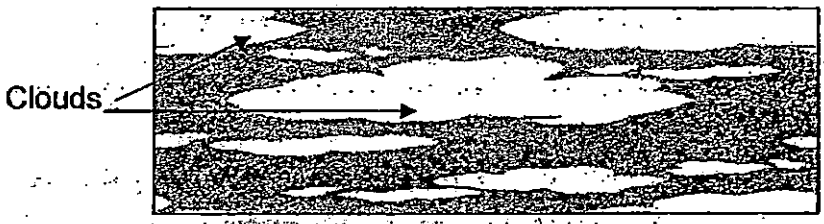
Plant that floats on the water surface	Plant that grows from the bottom of the pond

2

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(b) Aishah looked up and saw some clouds in the sky.



She concluded that clouds are living things because she noticed that clouds could do the following:

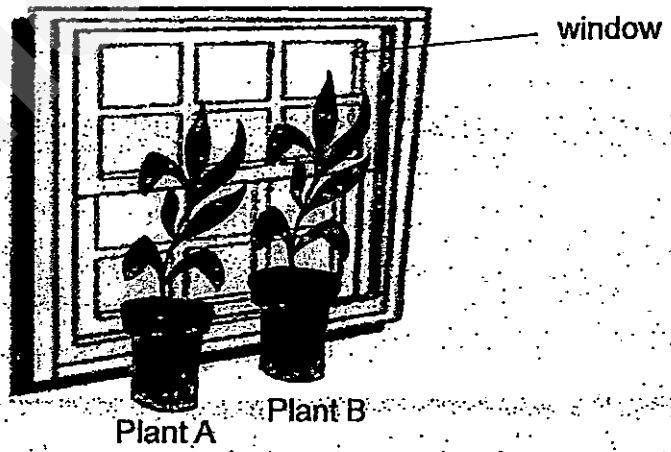
(i) Grow in size
(ii) Grow in numbers
(iii) Move across the sky

Is Aishah correct to say that clouds are living things? Give a reason for your answer. [1]

_____

_____

22. Mrs Gavinda conducted an experiment. She placed 2 similar potted plants, Plant A and Plant B, near a window. For a period of one month, she watered Plant A daily and did not water Plant B at all.



(a) What do you think Mrs Gavinda was trying to find out? [1]

_____

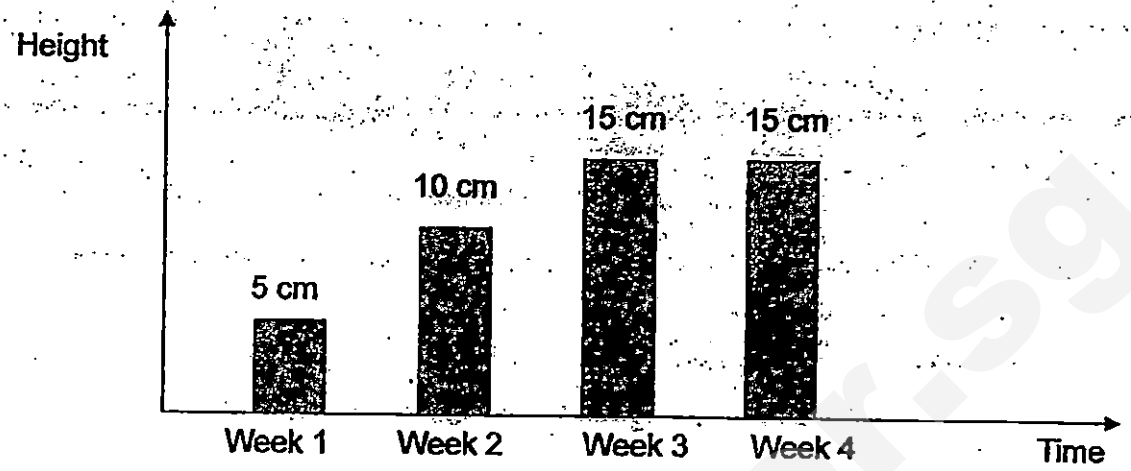
_____

2

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(b) Mrs Gavinda observed a change in height for one of the plants over a period of 4 weeks. She then drew a bar graph as shown below.



With reference to the given graph, read the statements and write 'T' for True and 'F' for False in the corresponding boxes. [2]

Statement	Write 'T' for True and 'F' for False
(i) **Based on the graph only**, Mrs Gavinda recorded the lowest height of the plant in week 1.	
(ii) The plant was taller in week 2 than in week 4.	
(iii) There was no change in the height of the plant between week 3 and 4.	
(iv) The plant grew faster from week 1 to 2 than from week 2 to week 3.	

2

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23. The animals below belong to the same group of animals.



Animal A



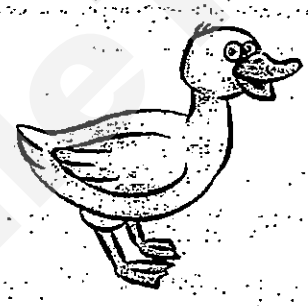
Animal B

(a) Why are Animals A and B able to stay on land for a short period of time but not the fish? [1]

_____

_____

(b) Look at Animal C shown below.



Write down one common body part for both Animals B and C. Explain how the body part helps in their movement. [1]

(i) Body part: _____

(ii) How the body part helps in their movement: _____

_____

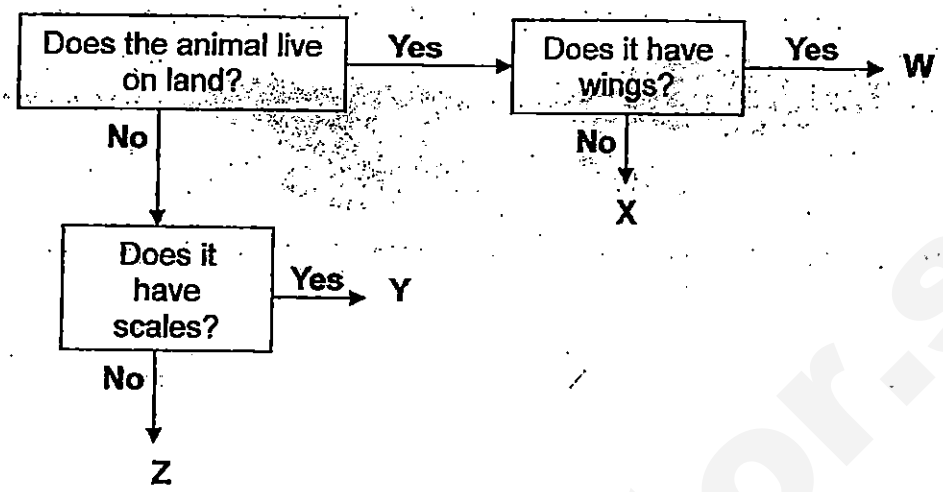
2

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24. Naomi classified four animals into groups, W, X, Y and Z, using the flow chart below.



(a) State one characteristic that is different between animals W and Z. [1]

(b) Which letters W, X, Y or Z, best represent the animals below? [1]



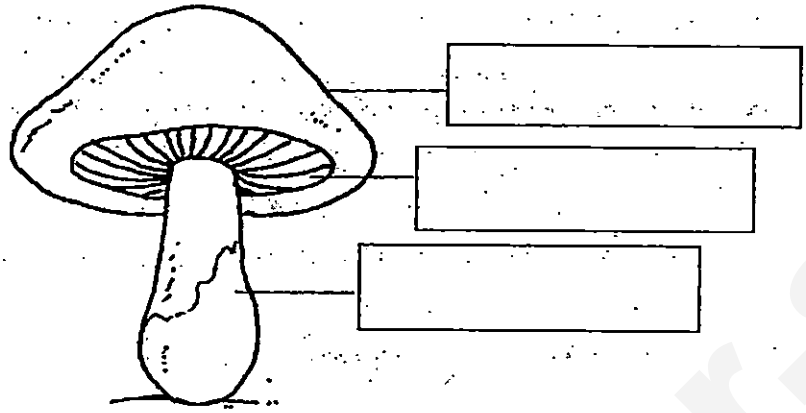


2

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25(a) Label the three parts of the mushroom below. [1½]



(b) Name a non-flowering plant that also reproduces in the same way as the mushroom above. [½]

_____

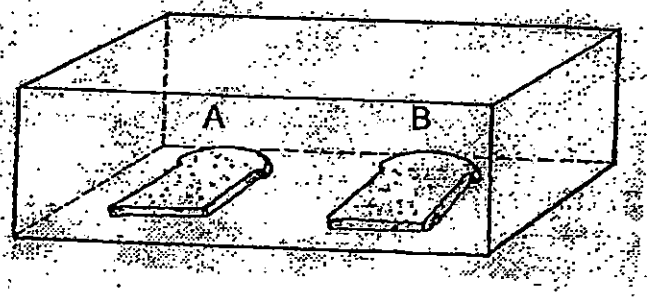
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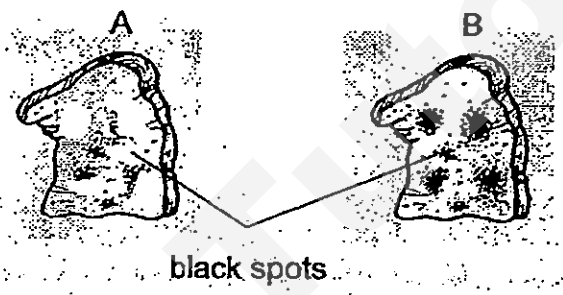
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26. Hock Seng conducted an experiment. He had two pieces of bread, A and B, and he put both pieces of bread inside a container as shown below.



After 10 days, he removed both pieces of bread from the container. He saw that both pieces of bread had some black spots on them. His science teacher told him that the black spots were living things.



(a) What could the black spots possibly be and which group of living things do they belong to? [1]

(b) What is the difference between the amount of black spots on bread A and B? [1]

(c) Suggest a reason for your answer in (b). [1]

3

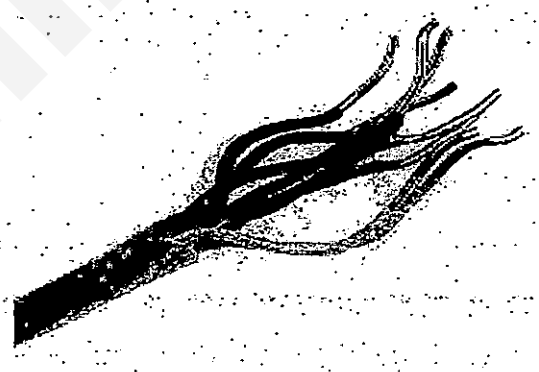
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27. The picture below shows a padlock.



(a) Explain how the property of metal makes it suitable for the purpose of a padlock. [2]



(b) Metal is also used to make electrical wires as seen above. Given the same material, list a property that is not stated in (a) but necessary for making the electrical wire. [1]

3

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28. On their way to school, four children were caught in heavy rain. Each of them picked the following items to shield themselves from the rain and ran for 5 minutes before they could reach school.

Amy chose the newspaper.
Bala chose a child's jacket made of wool only.
Chris chose a thin metal sheet (same size as the newspaper).
Danny chose a plastic picnic mat (same size as the newspaper).

(a) Which two children remained relatively dry when they reached school? [1]

_____

(b) What is the common property of the materials that allows both children to stay dry? [½]

_____

(c) Besides the property listed in question 28(b), state another property that is necessary to make a raincoat. [½]

_____

_ / 2

End of Booklet B

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : METHODIST GIRLS' SCHOOL
SUBJECT : SCIENCE
TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	1	2	1	1	4	4	3	4
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	4	3	1	3	4	2	1	2	3

Q21. Plants that floats on the water surface : - A

Q21. Plants that grow from the bottom of the pond : - C, B , D

Q21b. No, Clouds are not living things as they do not need air, food and water to survive.

Q22a. She was trying to find out whether water would affect plants from growing.

Q22b. (i) TRUE (ii) FALSE (iii) TRUE (iv) FALSE

Q23a. Fish breathe through gills and cannot live on land but Animals A and B breathe through lungs on land and are able to survive on land and water.

Q23b. (i) Webbed feet (ii) It helps them to swim when they are in water.

Q24a. Animal W lives on land but animal Z does not.

Q24b. Penguin - W Fish – Y

Q25a. **SEE PICTURE - Next page** Q25b. Moss

Q26a. The black spots are mould and they belong to the fungi group.

Q26b. The amount of black spots on bread A are fewer than the amount of black spots on bread B.

Q26c. Bread B could have had more moisture than bread A.

Q27a. Metal is strong and will not break easily when it is pulled, so the valuables will not be stolen away.

Q27b. Metal is a good conductor of electricity.

Q28a. Chris and Danny

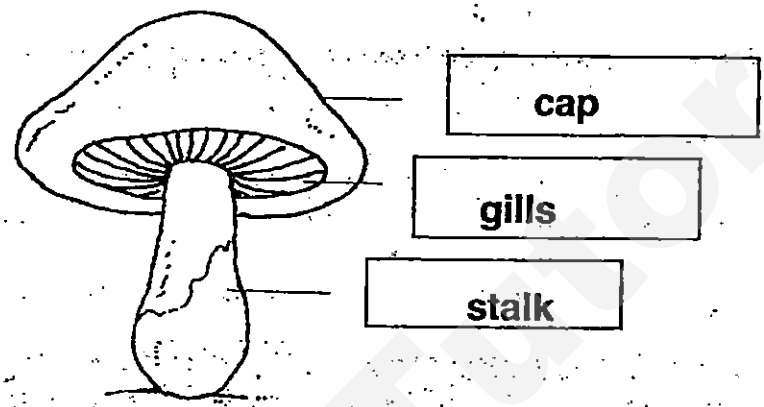
Q28b. The materials that they chose were both water proof.

Q28c. The material needs to be flexible.

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Q25a



THE END

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NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2015
PRIMARY 3

SCIENCE

BOOKLET A

24 Multiple Choice Questions (48 marks)

Total Time for Booklets A and B : 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.

Marks Obtained

Booklet A		/ 48
Booklet B		/ 32
Total		/ 80

Name: _____ ( ) Class: P 3 _____

Date : 13 May 2015 Parent's signature: _____

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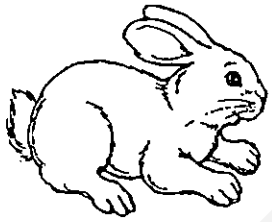
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Section A: (24 x 2marks = 48marks)
For each question from 1 to 24, four options are given. Choose the best answer (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS) provided.

1. Which one of the following do all living things need to survive?

(1) Air, water and food
(2) Air, food and shelter
(3) Water, food and energy
(4) Food, shelter and sunlight

2. Felix has a pet rabbit and a money plant. What is the similarity between the pet rabbit and the money plant?



Rabbit

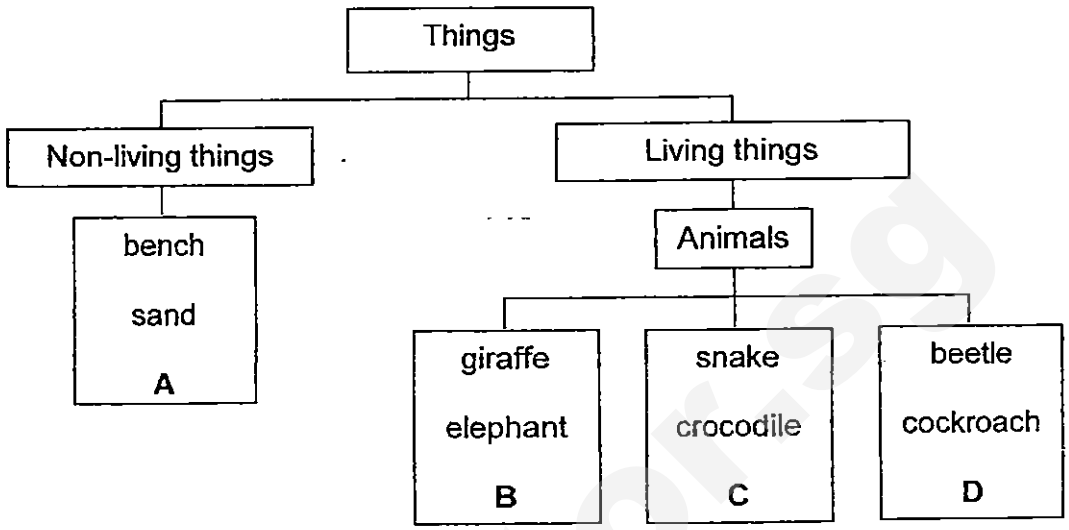


Money plant

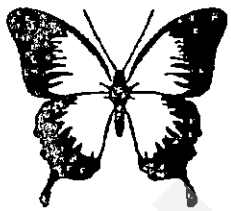
(1) Both cannot die.
(2) Both cannot reproduce.
(3) Both need sunlight to make food.
(4) Both respond to changes around them.

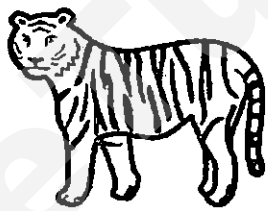
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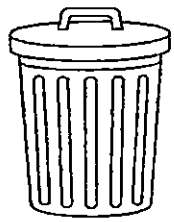
3. Sally had an outing to the Singapore Zoo and decided to group the things she saw into the classification chart below.



Her brother observed the following things during the outing as well. How can he group them into the classification chart above?


Butterfly


Tiger


Dustbin


Iguana

	Butterfly	Tiger	Dustbin	Iguana
(1)	A	B	D	C
(2)	B	D	C	A
(3)	D	C	B	A
(4)	D	B	A	C

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4. Mary found the following things at her house.



doll



potted plant



bicycle



cat

She described their characteristics in the table below.

	A	B	C	D
Can it grow?	Yes	No	Yes	No
Does it respond to changes?	Yes	No	Yes	No
Does it move from one place to another on its own?	No	No	Yes	No

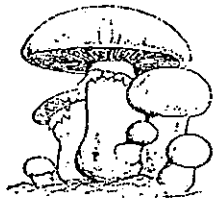
Which of the following represents the cat?

(1) A
(2) B
(3) C
(4) D

5. Yeast and mushrooms are both examples of _____.



Yeast

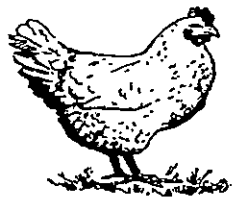
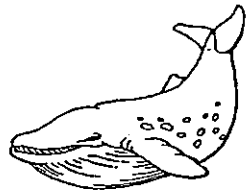


Mushroom

(1) fungi
(2) microorganisms
(3) non-living things
(4) non-flowering plants

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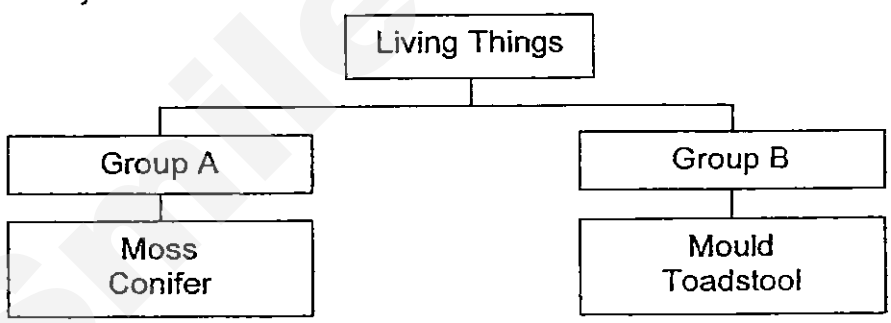
6. Study the pictures below.

Animals			
Bird	**Amphibian**	**Fish**	**Insect**
			
Chicken	Toad	Blue Whale	Bee

Which of the animal is grouped wrongly?

(1) Bee
(2) Toad
(3) Chicken
(4) Blue Whale

7. Study the classification table below.



Based on the table, which are most suitable headings for Group A and Group B?

	Group A	Group B
(1)	Microorganisms	Non-flowering plants
(2)	Non-flowering plants	Microorganisms
(3)	Microorganisms	Fungi
(4)	Non-flowering plants	Fungi

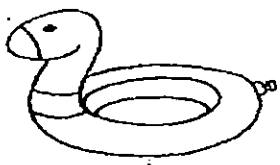
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8. Which of the following materials is **not** suitable for making a cup?

(1) Wood
(2) Metal
(3) Fabric
(4) Ceramics

9. The diagram below shows a float which is used for keeping people afloat during swimming.



What material is the above float made of?

(1) Glass
(2) Metal
(3) Cotton
(4) Rubber

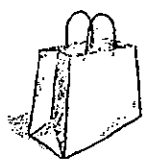
10. Which of the following objects is the strongest?

(1)



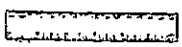
Iron nail

(2)



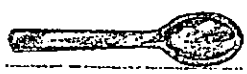
Paper bag

(3)



Plastic ruler

(4)

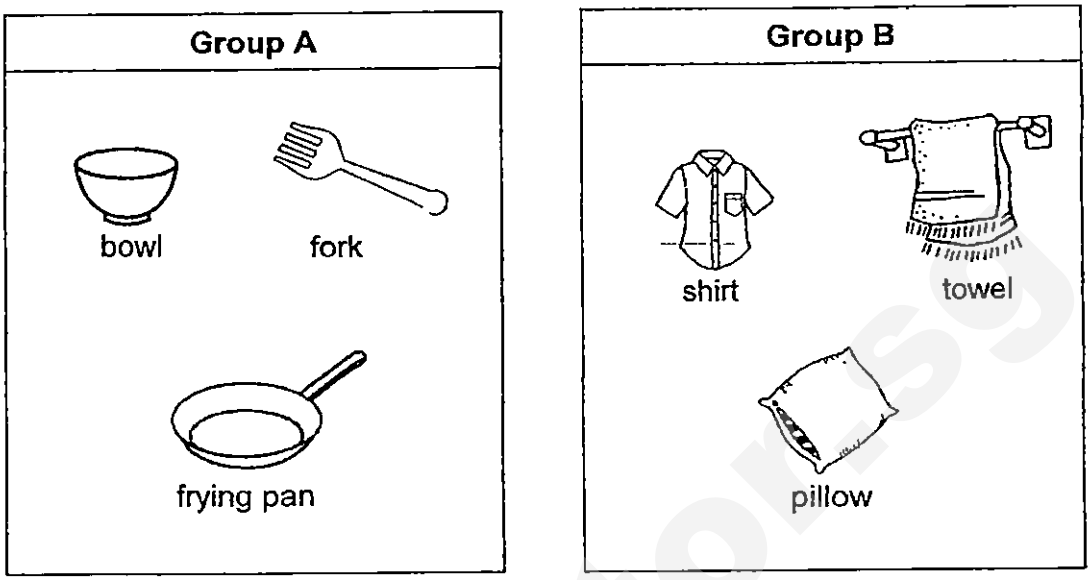


Wooden spoon

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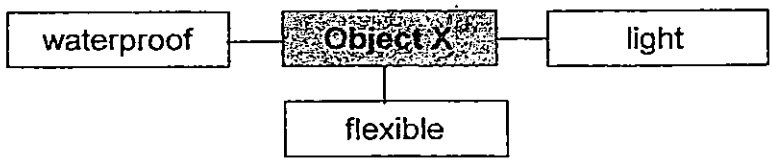
11. Study the two groups below carefully.



Which of the following is a suitable heading for the two groups of things above?

	Group A	Group B
(1)	Transparent	Not transparent
(2)	Waterproof	Not waterproof
(3)	Can float on water	Cannot float on water
(4)	Come from animals	Come from plants

12. Some properties of Object X are shown in the diagram below.



What can Object X be?

(1) Key
(2) Book
(3) Blanket
(4) Raincoat

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13. Pupils A, B, C and D made the following statements during a discussion about the characteristics of living things.

Pupil A Fungi is an example of a living thing.

Pupil B The flag is a living thing because it responds to the wind.

Pupil C Living things will eventually die.

Pupil D All living things can move from place to place.

Which of the above pupils are correct?

(1) A and C only
(2) A and D only
(3) B and C only
(4) B and D only

14. Tom drew a table to show the change in his height for five consectutive years. Study the table below.

Age (years)	Height (cm)
9	138
10	143
11	149
12	152
13	161

What can you conclude about the characteristics of living things from the table above?

(1) Living things can die.
(2) Living things can grow.
(3) Living things can respond to changes.
(4) Living things need air, food and water to survive.

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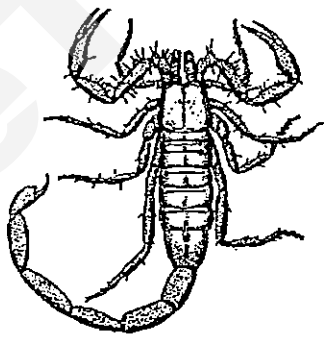
15. The table below shows characteristics of Plants A, B, C and D.

Characteristic	A	B	C	D
Bear fruits		✓	✓	
Grow on land			✓	✓
Reproduce from spores	✓			
Have roots, stems and leaves	✓	✓	✓	✓

Which of the following are non-flowering plant(s)?

(1) A only
(2) A and D only
(3) C and D only
(4) B, C and D only

16. Alex saw Animal X as he was walking in the garden. His friend suggested the following ways to conclude if the animal is an insect.



Animal X

A Count the number of legs.
B Check to see if it has wings.
C Check to see if it has feelers
D Count the number of body parts.

Which of the above suggestion(s) should Alex use to check if Animal X is an insect?

(1) B only
(2) A and D only
(3) A, B and C only
(4) A, B, C and D

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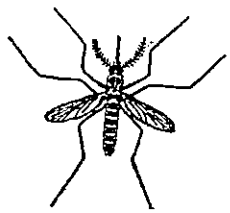
17. Animal Y flew into Siti's living room. Siti observed the animal and wrote down her observations below.

It has two legs.
It has hair as an outer covering.
It has a pair of wings.

Which of the following groups of animals does Animal Y belong to?

(1) Birds
(2) Reptiles
(3) Mammals
(4) Amphibians

18. Study the table below.

Group C	Group D
 Penguin  Parrot  Ostrich	 Housefly  Spider  Mosquito

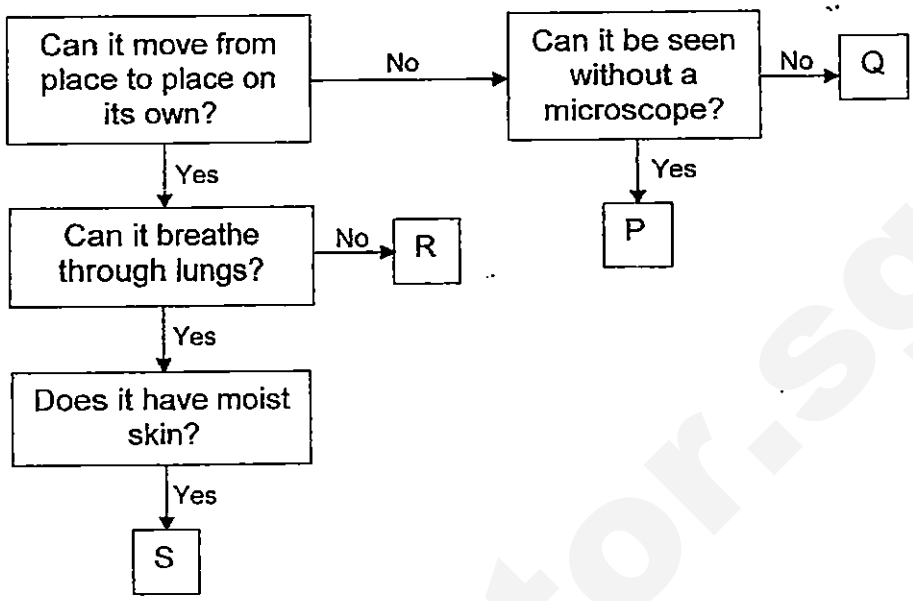
Which of the following is a suitable heading for Group C and Group D?

	Group C	Group D
(1)	Birds	Insects
(2)	Covered with feathers	Not covered with feathers
(3)	Can fly	Cannot fly
(4)	Lay eggs	Give birth to young

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19. Study the flowchart below.



What living things are P, Q, R and S likely to be?

	P	Q	R	S
(1)	Mushroom	Bacteria	Swordfish	Cockroach
(2)	Bacteria	Bread mould	Parrot	Lizard
(3)	Yeast	Bacteria	Dragonfly	Goldfish
(4)	Money plant	Yeast	Ant	Frog

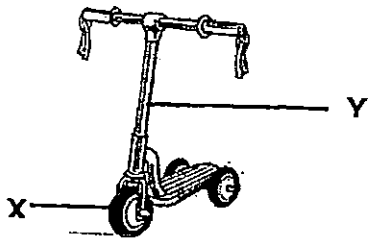
20. Which of the following groups of materials are used in building houses and bridges?

(1) cloth, glass and wood
(2) metal, glass and cloth
(3) metal, stones and wood
(4) wood, paper and stones

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21. The diagram below shows a skate scooter.



What materials could part X and Y be made of?

	X	Y
(1)	Glass	Wood
(2)	Ceramics	Paper
(3)	Rubber	Fabric
(4)	Plastic	Metal

22. David collected the four objects as shown below.

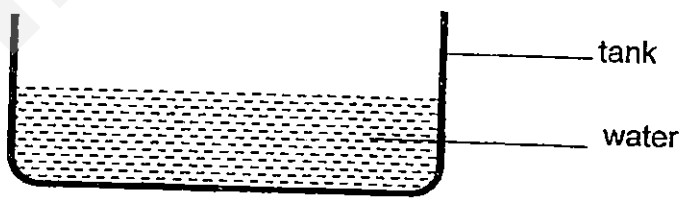

Coin


Pencil


Paper clip


Handkerchief

He wanted to find out if each of the objects will sink or float. He dropped each of the objects into a tank of water and observe the objects for five minutes.



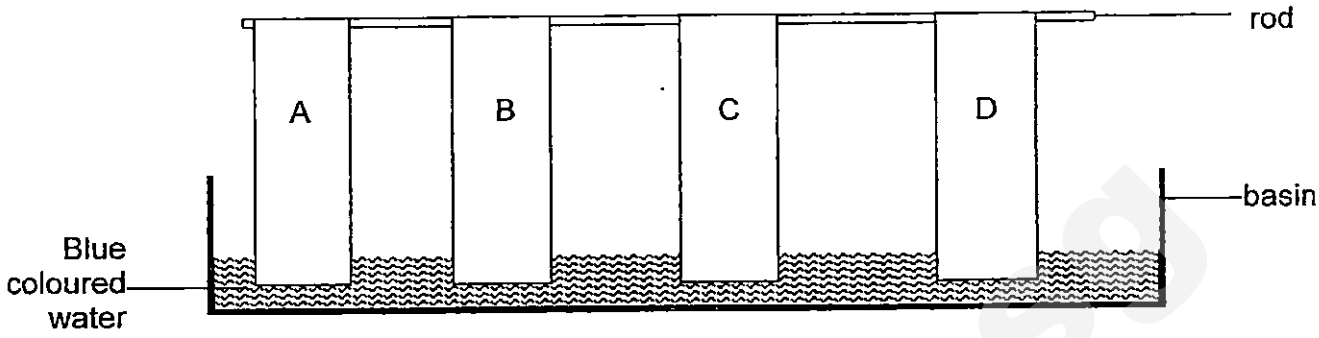
What will David observe after five minutes?

	Coin	Pencil	Paper clip	Handkerchief
(1)	float	sink	sink	float
(2)	float	float	float	float
(3)	sink	float	sink	sink
(4)	sink	float	sink	float

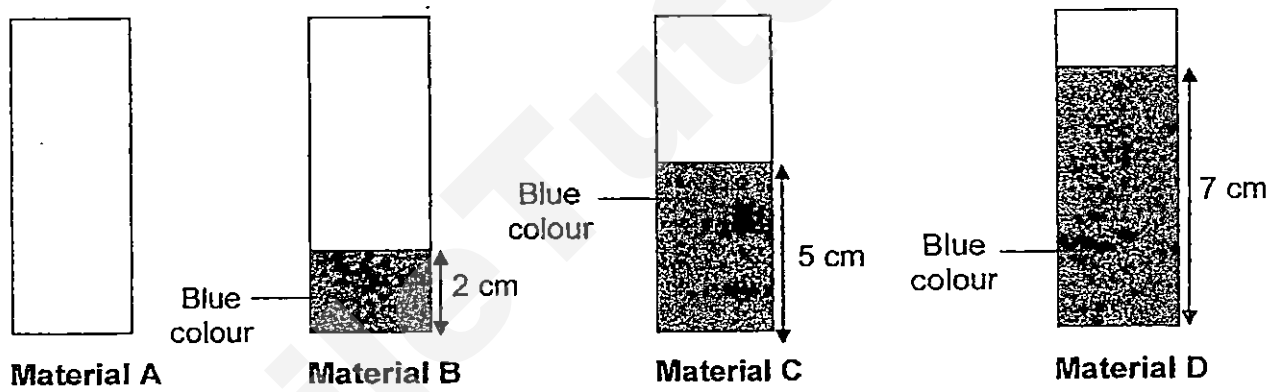
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23. Kelly wanted to test if Materials A, B, C and D is waterproof. She set up the experiment as shown below.



Kelly hung Materials A, B, C and D on a rod and then she lowered the materials (A, B, C and D) into a basin of blue coloured water. She waited for one minute and then measured the length that the blue coloured water has moved up the paper. Her results are shown below.



Which of the four materials, A, B, C or D, is waterproof?

(1) A
(2) B
(3) C
(4) D

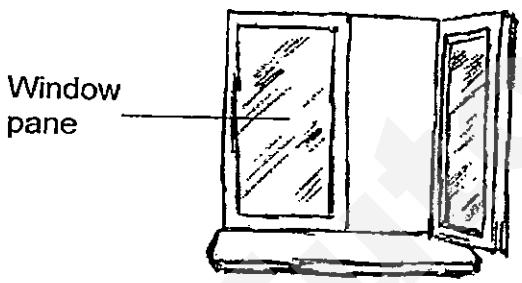
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24. The table below shows some properties of Materials W, X, Y and Z. A tick (√) indicates that the material has that property.

	W	X	Y	Z
It is waterproof.	√		√	
It is transparent.			√	√
It can bend easily.	√	√		√

Which material (W, X, Y and Z) is the most suitable for making a window pane?



(1) W
(2) X
(3) Y
(4) Z

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NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2015
PRIMARY 3

SCIENCE

BOOKLET B

10 Open-ended questions (32 marks)

Total Time for Booklets A and B : 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.

Marks Obtained

Section B		/ 32

Name: _____ (') Class: P 3 _____

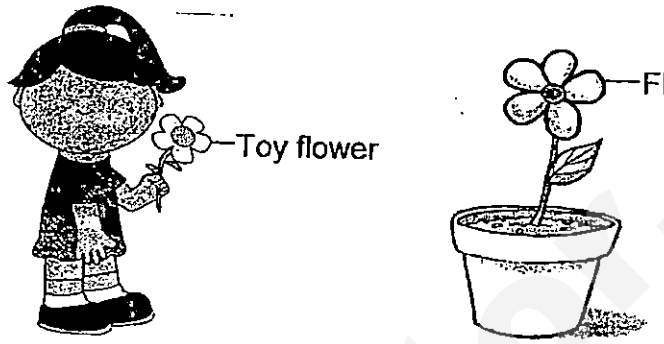
Date : 13 May 2015 Parent's Signature: _____

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Section B: (32 marks)
Write your answers to questions 25 to 34 in the space provided.
The number of marks allocated is shown in brackets [ ] at the end of each question or part of the question.

25. Sharon received a toy flower from her friend. She placed the toy flower next to a flower in the pot that her mother has planted in their garden.



After a few weeks, she noticed that the flower in the pot has died but the toy flower remained the same.

a. State the characteristic of living things that explains the above. [1]

_____

_____

b. List two other characteristics of living things. [2]

_____

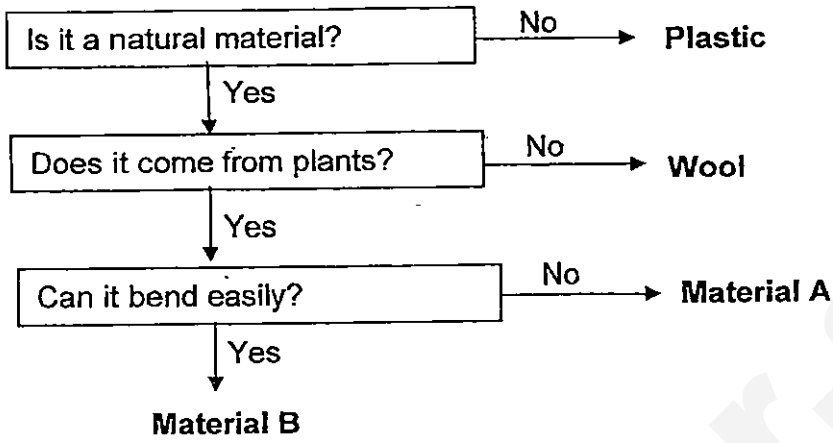
_____

Score	/ 3

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26. Study the flowchart shown below.



a. What could Material A and Material B be?

Material A : _____ [1]

Material B : _____ [1]

b. Li Jie classified some objects according to their flexibility as shown in the table below.

Can bend easily	Cannot bend easily
Tissue paper	Whiteboard marker
Wooden ruler	Lamp
Rubber band	Stapler

Li Jie's teacher told him that he has classified one of the objects wrongly. Which object has been classified wrongly? Explain your answer. [1]

_____

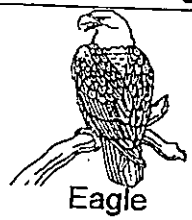
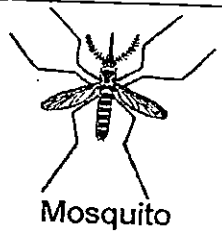
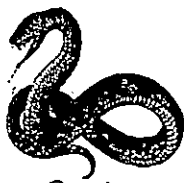
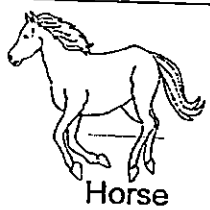
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Score	/ 3

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27. Chris found picture cards of some animals and classified them into two groups as shown below.

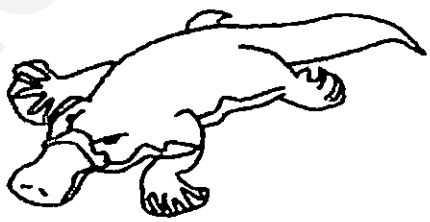
Group C	Group D
 Eagle  Mosquito  Frog  Snake	 Horse  Guppy  Kangaroo  Dog

a. Write a suitable heading for Group C and D. [2]

Group C: _____

Group D: _____

b. Chris found another picture card below.



platypus

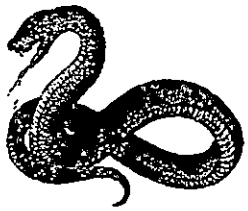
Which of the above groups does the platypus belong to? [1]

_____

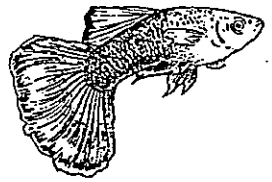
Score ___/3

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Snake

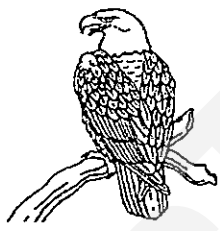


Guppy

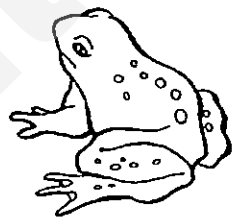
c. Based on the picture above, state one similarity between the snake and the guppy. (Do not compare their shape, size, colour and pattern) [1]

_____

_____



Eagle



Frog

d. Based on the picture above, state one difference between the eagle and the frog. (Do not mention shape, size, colour and pattern) [1]

_____

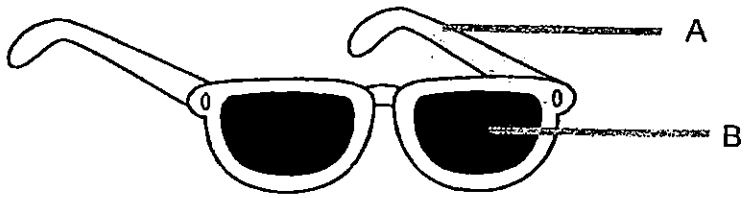
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Score	/ 2

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28. Study the diagram of a pair of sunglasses below.



Name the materials used to make Part A and B.

A : _____ [1]

B : _____ [1]

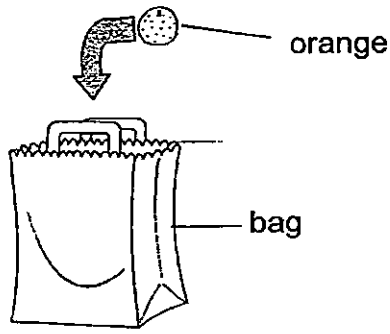
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Score / 2

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29. Kimmy wanted to find a suitable material to make a shopping bag for her mother. She used two materials (S and T) to make a simple bag and added oranges into each bag until the bag breaks. She then recorded the number of oranges used for each bag.



The results of her experiment are shown below.

	Number of oranges in the bag when the bag broke
S	2
T	10

a. Which material (S or T) should Kimmy use to make a durable shopping bag for her mother? Explain your answer. [1]

_____

_____

b. Kimmy's mother wants to use the bag when she goes to the supermarket to buy fish. What other property must the shopping bag have so that Kimmy's mother can use it to buy fish and other seafood? [1]

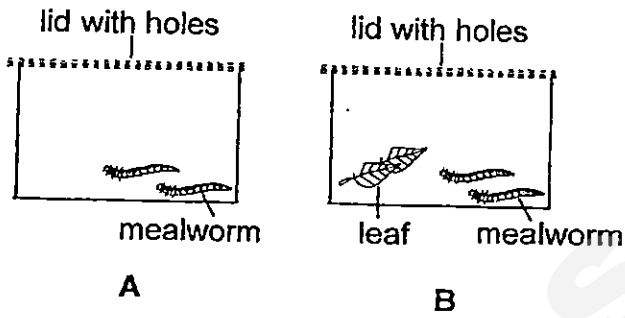
_____

Score ___/2

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30. Daniel wanted to conduct an experiment and prepared Set-ups A and B as shown below.



a. What was Daniel trying to find out? [1]

_____

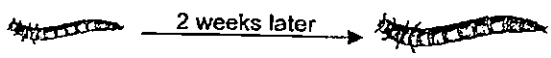
b. What would Daniel observe in the two set-ups after two weeks? [2]

_____

_____

_____

c. Daniel also observed that some of the mealworms increased in size after two weeks as shown below.



What characteristic of living things is the mealworm displaying? [1]

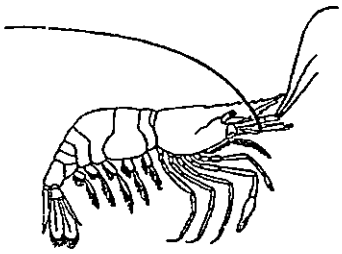
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Score	/ 4

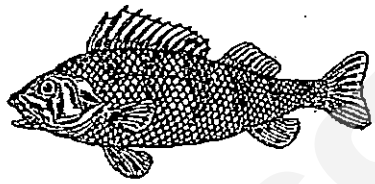
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31. Joanna went to an aquarium and saw two animals as shown in the diagrams below. She told her father that they belong in the same animal group as they both live in the sea.



Animal X



Animal Y

a. Based on the diagrams above, state two differences between Animal X and Animal Y.
(Do not mention shape, size, colour and pattern) [2]

(i) _____

_____

(ii) _____

_____

b. Which part of Animal Y helps it to move in water? [1]

_____

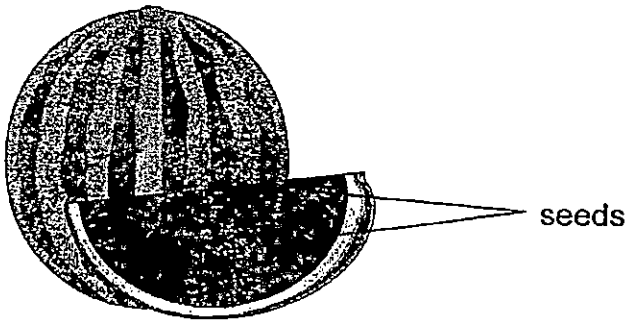
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Score	/ 3

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32. Devi was in the kitchen when she saw a sliced watermelon as shown in the diagram below.



a. Her mother told her that the watermelon comes from a plant.

i. Which part of the plant is the watermelon? [1]

_____

ii. Do all plants have the above plant part? Explain your answer. [1]

_____

_____

Devi decided to eat a slice of the watermelon without washing her hands. A few days later, she fell sick.

b. What living thing could have caused Devi to fall sick? [1]

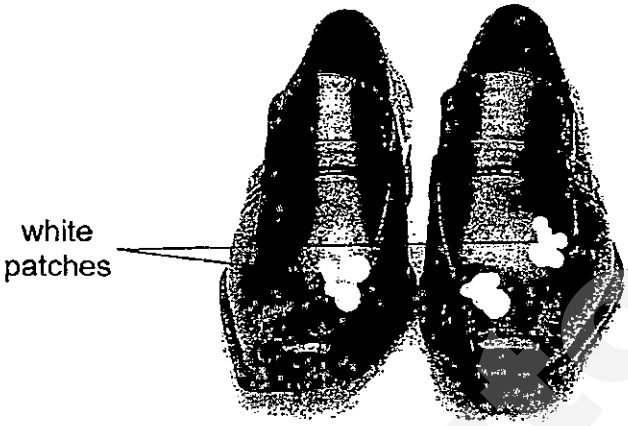
_____

Score 3

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33. Peter wore his black leather shoes out on a rainy day. As soon as he reached home, he placed the wet shoes into a shoe box.

A few days later, he decided to take the shoes out of the shoe box. He discovered white patches on the surface of his shoes as shown in the diagram below.



Leather shoes

a. What are the white patches? Explain why they are found on the shoes [2]

_____

_____

_____

b. What should Peter have done to prevent the white patches from developing on his leather shoes? [1]

_____

_____

c. Name two other living things that can be classified in the same group as the "white patches". [1]

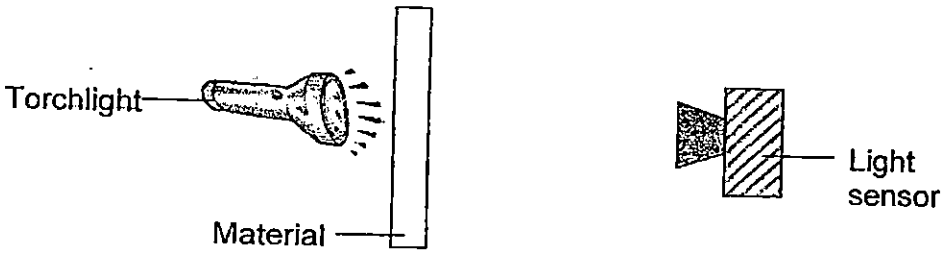
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Score ___/4

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34. Mr Yeo finds that some of the classrooms in the school are too bright in the afternoon. He wants to make some curtains for the classroom windows so that when the projector is being used, the students can see the projection clearly. He found two materials (X and Y). He did a test on them using a light sensor as shown below.



Mr Yeo tested each of the materials by shining 12 units of light on the material and then used a light sensor to see how much light passed through the material. The results of his test are shown in the table below.

	Amount of light passing through
Material X	10 units
Material Y	3 units

a. Which material should Mr Yeo choose to make the curtain for the classroom? Explain your answer. [1]

b. Mr Yeo used the same test above to test three materials he wants to use for making new toilet doors in the school toilets. His results are shown in the table below.

	Amount of light passing through
Material A	5 units
Material B	0 units
Material C	11 units

Which material is suitable for the toilet door? Explain your answer. [2]

~ End of paper ~

Score 3

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : NAN HUA PRIMARY SCHOOL
SUBJECT : SCIENCE
TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	**4**	**4**	**3**	**1**	**4**	**4**	**3**	**4**	**1**
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	**4**	**1**	**2**	**2**	**2**	**3**	**2**	**4**	**3**
Q21	Q22	Q23	Q24						
4	**3**	**1**	**3**						

Q25a. Living things can die

Q25b. (i) Living things need air, food and water.

Q25b (ii) Living things are able to grow.

Q26a. Material A: Wood Material B: Rubber

Q26b. The wooden ruler is classified wrongly because the wooden ruler is made of wood and wood cannot be bend easily.

Q27a. Group C: Lay eggs Group D: Does not lay eggs.

Q27b. Playtpus belongs to group C.

Q27c. The snake and guppy have scales as outer covering.

Q27d. The eagle has feathers as outer covering but frog has moist skin.

Q28a. A: Made of Plastic B: Made of Plastic

Q29a. Kimmy should use Material T because Material T can hold more oranges than material S.

Q29b. The bag must be waterproof.

Q30a. Daniel was trying to find out if mealworms need food to survive.

Q30b. The mealworm in set up B will survive whereas the mealworms in set up A will be dead.

Q30c. Living things can grow.

Q31a (i) Animal Y has scales as outer coverings but Animal X don't.

Q31a (ii) Animal Y has fins but Animal X don't.

Q31b. The fins of Animal Y help it to move in water.

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Q31b. The fins of Animal Y help it to move in water.

Q32a (i) The fruit . Q32a (ii) No, only flowering plants bear fruits.

Q32b. The bacteria on Devi's hands make her fall sick.

Q33a. Mould / Mildew. Peter kept the shoes into the shoe box while it was still in condition and grows well in moist.

Q33b. Peter should have dried the leather shoes not in a dark place.

Q33c. Yeast / Mushroom / Toadstool / Bracket fungi / puffball

Q34a. Mr Yeo should use material Y because lesser light passes through.

Q34b. Material B. It is not transparent so no one can see through it.

THE END

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NANYANG PRIMARY SCHOOL

PRIMARY 3 SCIENCE
SEMESTRAL ASSESSMENT 1
2015

BOOKLET A

Date : 12 May 2015
Duration : 1 h 20 min

Name : _____ **( )**

Class: Primary 3 ( )

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.

Booklet A consists of 14 printed pages including this cover page

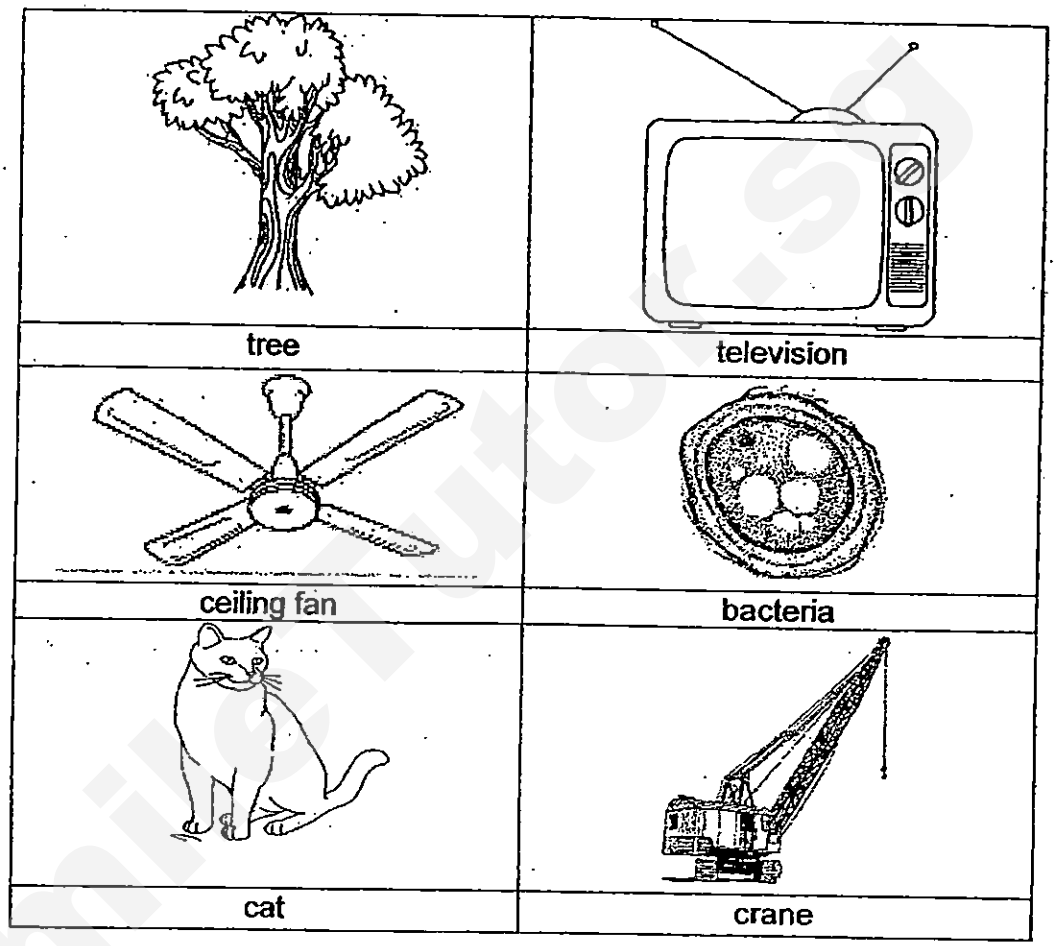
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Section A (24 x 2 marks = 48 marks)

For each question from 1 to 24, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). **Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet provided.**

1. Amil has to classify the items below into living things and non-living things.



Which one of the following shows the correct way to classify the items?

	Living things	Non- living things
(1)	tree, television, cat	ceiling fan, bacteria, crane
(2)	television, ceiling fan, cat	bacteria, tree, crane
(3)	ceiling fan, bacteria, cat	television, tree, crane
(4)	tree, cat, bacteria	crane, ceiling fan, television

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2. James observed X for a week and recorded his observations in the table below.

Days	Height of object X
1	8cm
2	8cm
3	9cm
4	9cm
5	11cm
6	11cm
7	12cm

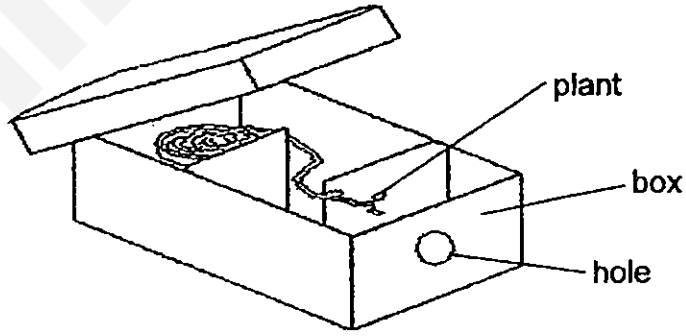
He then made the following statements about object X.

A X can grow.
B X can reproduce.
C X responds to changes around it.

Based on his observations, which of his statements is/are **true**?

(1) A only
(2) B only
(3) B and C only
(4) A, B and C

3. Zhi Rui placed a plant in a box. He created a hole in the box and left it to grow for a week. After a week, he opened the box and found the plant growing sideways instead of upright, as shown in the diagram below.



Based on the results, which one of the following statements explains the characteristic of the plant?

(1) The plant can reproduce.
(2) The plant needs air to survive.
(3) The plant can move freely from one place to another.
(4) The plants can respond to changes in its surroundings.

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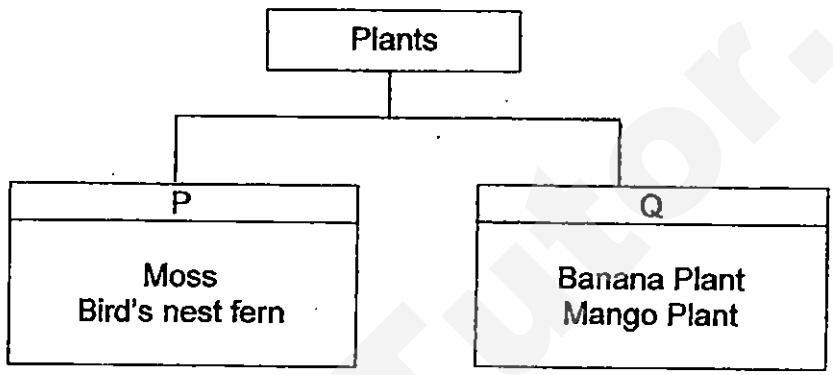
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4. Ron wrote a few statements about plants. Which of the following statements are **true**?

A All plants reproduce by seeds.
B All plants can make their own food.
C All plants need air, food and water to survive.
D All plants have stems, roots, flowers and leaves

(1) A and C only
(2) B and C only
(3) A, B and D only
(4) B, C and D only

5. Study the chart below.



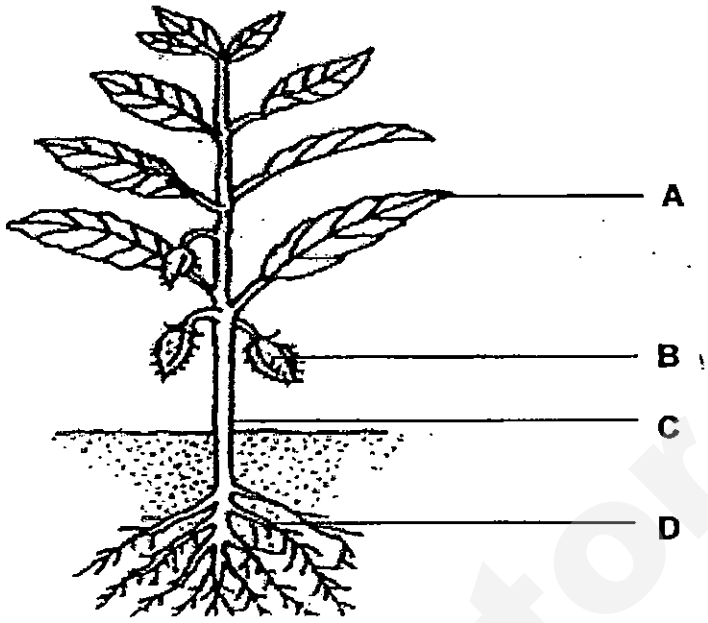
Which of the following sets of **headings** can represent P and Q?

	P	Q
(1)	Grow on land	Grow in water
(2)	Bear fruits	Does not bear fruits
(3)	Cannot make food	Can make food
(4)	Non-flowering plant	Flowering plant

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6. Willy saw a plant in the garden as shown in the diagram below.



He observed the plant parts and concluded that it is a flowering plant.

Which part of the plant suggests that his conclusion is correct?

(1) A
(2) B
(3) C
(4) D

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7. Ralph took photographs of some plants growing at the school garden as shown below.



Moss



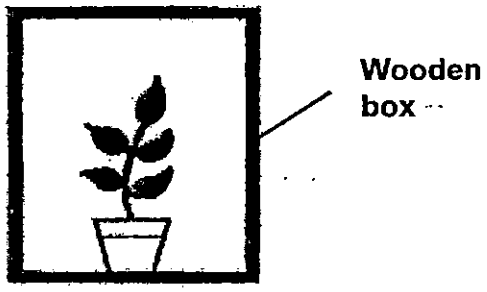
Fern

Mosses and ferns are similar in many ways. Which one of the statements describes their similar characteristic?

(1) They produce fruits.
(2) They reproduce by spores.
(3) They feed on other living things.
(4) They grow well in dark, moist and warm places.

8. During a science experiment, Kristie prepared two identical potted plants and placed them separately in a glass box and a wooden box. She watered the plants and left both set-ups at a sunny place.





What was Kristie trying to find out from her experiment?

(1) To find out if plants need air to survive
(2) To find out if plants need water to survive
(3) To find out if plants need warmth to survive
(4) To find out if plants need sunlight to survive

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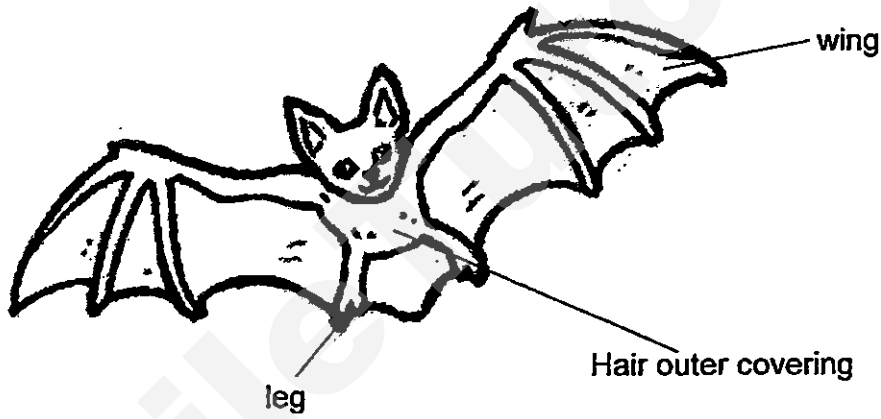
9. Ranveer was sitting by a river and found an animal.
He made the following observations about the animal.

- It has a tail.
- It has moist skin.
- It lays its egg in the water.
- It is able to swim in the water.

Which one of the following groups of animals does the animal most likely belong to?

(1) Fish
(2) Reptile
(3) Mammals
(4) Amphibians

10. Sameer shared a picture of an animal that lives on land with his friends.



Based on the picture above and the information provided, his friends made the following statements.

Agil : The animal is a bird because it has wings.
Bablu : The animal is a mammal because it lives on land.
Cayden : The animal is a bird because it has a pair of legs.
Dandy : The animal is a mammal because its outer covering is hair.

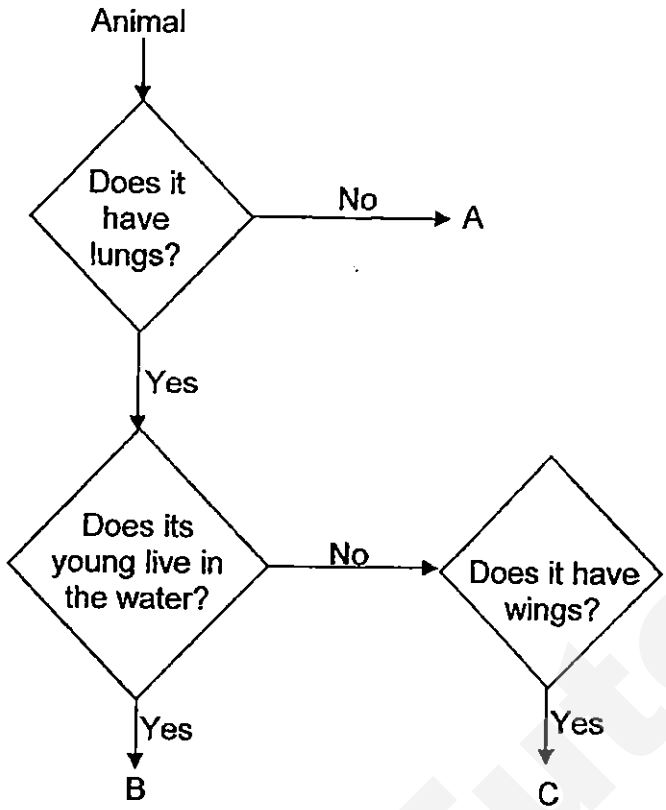
Who had made the correct statement?

(1) Agil
(2) Bablu
(3) Cayden
(4) Dandy

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11. Study the flow chart below.



Based on the flowchart, which one of the following animals could represent A, B and C correctly?

	A	B	C
(1)	shark	dolphin	bat
(2)	dolphin	tiger	bat
(3)	dolphin	cat	goldfish
(4)	shark	tiger	parrot

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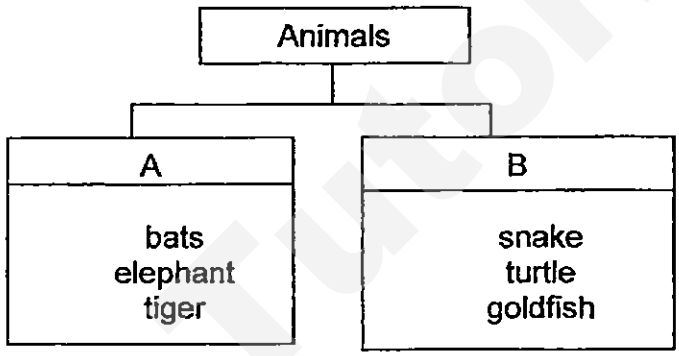
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12. Which of the following statements are **true** about fish?

A Most fish give birth to their young alive.
B Fish have fins to help them move in water.
C Fish have moist skin to help them breathe in water.
D Scales are hard so they can protect the fish's soft body.

(1) A and C only
(2) B and D only
(3) B, C and D only
(4) A, B and D only

Study the chart below and answer questions **13** and **14**.



13. Which one of the following best represents A and B?

	A	B
(1)	Have legs	Have fins
(2)	Mammals	Reptiles
(3)	Lives on land	Lives in the sea
(4)	Covered in hair	Covered in scales

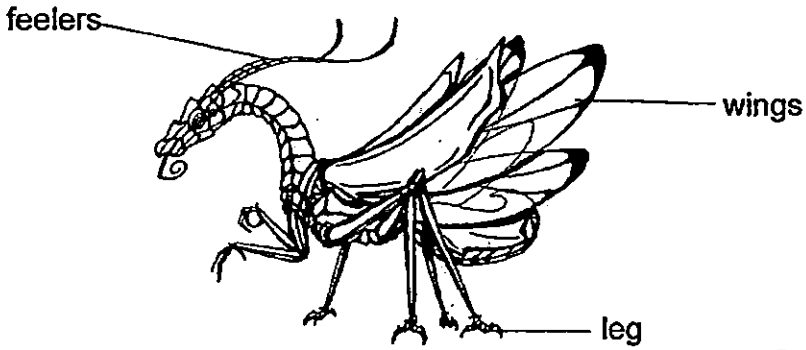
14. Which of the following animals can be classified in group B?

(1) lizard
(2) whale
(3) mosquito
(4) cat

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15. Hong Rui found the unusual animal shown below.



He observed the animal and recorded the following characteristics:

A It has wings.
B It has feelers.
C It has six legs.
D It lives on land and water.
E It has a hard outer covering.

Which of the observations above would help Hong Rui to classify the animal as an insect?

(1) A, B and C only
(2) A, B and D only
(3) A, D and E only
(4) B, C and E only

16. Which of the following explains the function of feathers as an outer-covering?

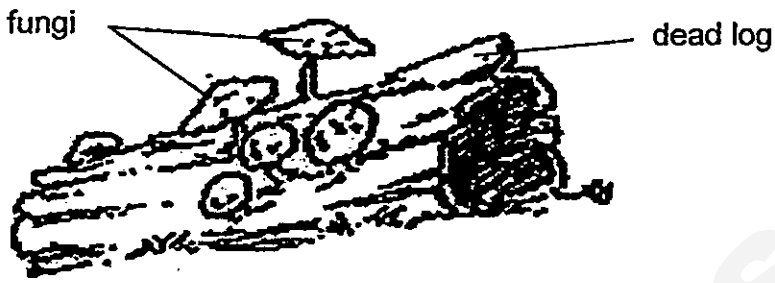
A It protects the bird.
B It helps the bird to fly.
C It keeps the bird warm.

(1) A only
(2) A and B only
(3) B and C only
(4) A, B and C

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17. Marie observed some fungi growing on a dead log as shown below. After a few weeks, she noticed the log getting smaller but the fungi getting bigger.



Based on her observation, which of the following statements about fungi is **true**?

(1) The fungi grow when there is light
(2) The fungi get food from the dead log.
(3) The fungi make food from the dead log.
(4) The fungi get air and water from the dead log.

18. Four children made the following statements about the characteristics of bacteria.

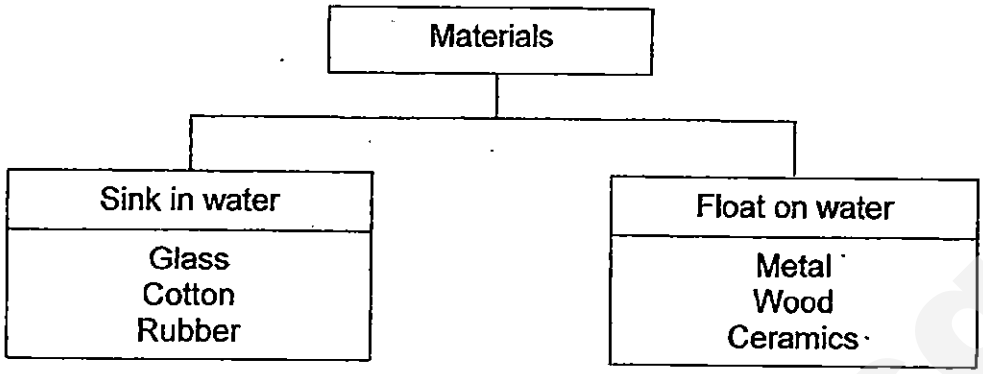
Which one of the following statements is **correct**?

(1) All bacteria are harmful.
(2) All bacteria can reproduce.
(3) All bacteria can only be found in dirty places.
(4) All bacteria can be seen with our naked eyes.

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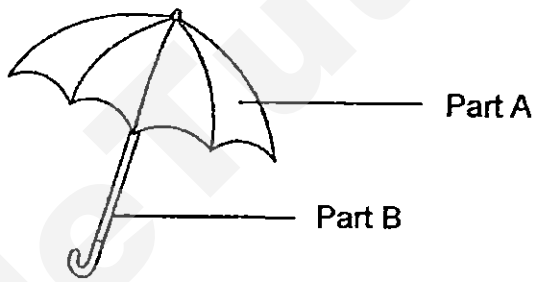
19. Study the following classification chart.



Which of the materials had been **wrongly** classified?

(1) Glass and rubber only
(2) Rubber and wood only
(3) Cotton and metal only
(4) Metal and ceramics only

20. Jamie is looking for a suitable material to make part A and B of an umbrella as shown below.



Which are the **most suitable materials** for making the umbrella?

	Part A	Part B
(1)	Metal	Fabric
(2)	Wood	Paper
(3)	Plastic	Metal
(4)	Glass	Plastic

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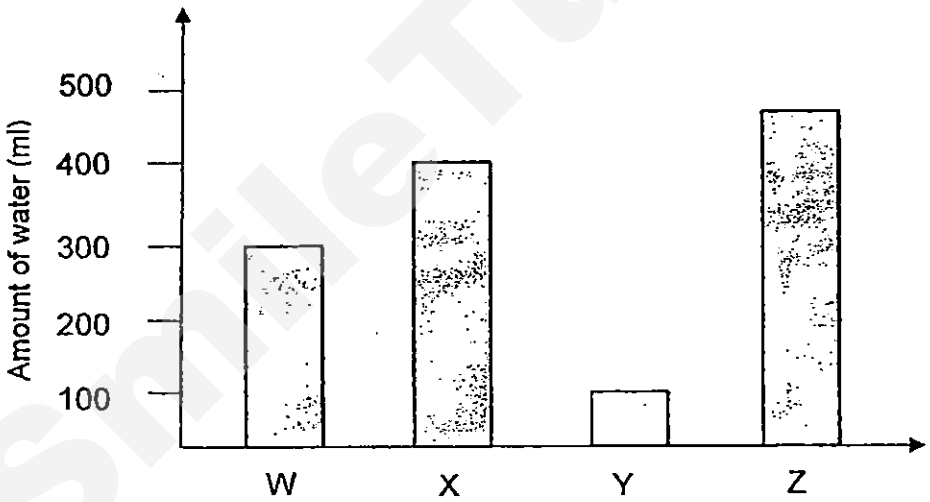
21. David was given an unknown object. He recorded the following properties of the object after conducting some tests.

- It is strong.
- It sinks in water
- It does not allow light to pass through

Which of the following is most likely to be made from the same material as the unknown object?

(1) Ping pong ball
(2) Metal fork
(3) Glass
(4) Wooden spoon

22. Johan carried out an experiment with four thin sheets made of different materials. They are of the same size and thickness. Johan placed four thin sheets into four different pails, W, X, Y and Z, each containing 500ml of water. After he removed the thin sheets from the pails, he measured the amount of water left in the pails and plotted a bar graph as shown below.



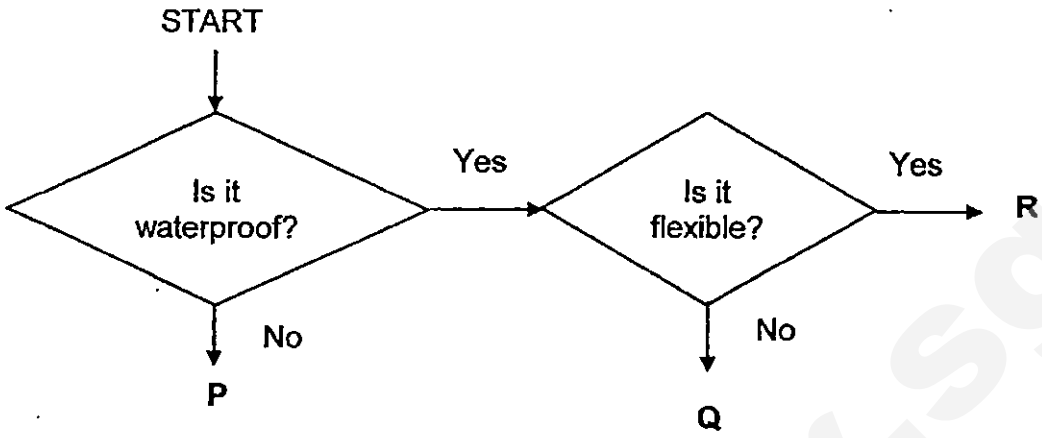
Which one of the pails had contained the material which could absorb the **least** amount of water?

(1) W
(2) X
(3) Y
(4) Z

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23. Study the flowchart below.



Which of the following could represent objects P, Q and R?

	P	Q	R
(1)	Cotton Wool	Window pane	T-shirt
(2)	T-shirt	Ceramic cup	Raincoat
(3)	Raincoat	Window pane	Cotton Wool
(4)	Eraser	Cotton Wool	Ceramic cup

24. Why is metal generally considered a strong material?

(1) It sinks in water.
(2) It does not absorb water.
(3) It can bend easily without breaking.
(4) It can support a large amount of mass without breaking.

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NANYANG PRIMARY SCHOOL

PRIMARY 3 SCIENCE

SEMESTRAL ASSESSMENT 1
2015

BOOKLET B

Date : 12 May 2015

Duration : 1 h 20 min

Name : _____ **( )**

Class: Primary 3 ( )

Marks Scored:

Booklet A:		**48**
Booklet B :		**32**
Total :		**80**

Any query on marks awarded should be raised by 21 May 2015 . We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Parent's signature: .....

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FOLLOW ALL INSTRUCTIONS CAREFULLY.

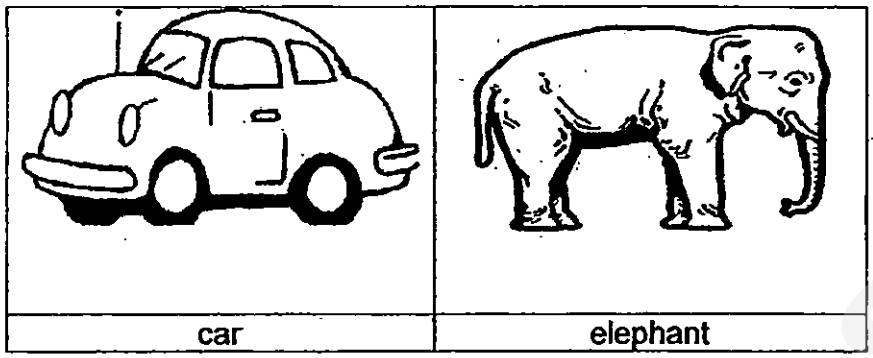
Booklet B consists of 12 printed pages including this cover page.

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Section B (32 marks)
Write your answers to questions 25 to 34 in the spaces provided.

25. Alex compared a car and an elephant.



car	elephant

Alex observed that both the car and the elephant are living things because they can **move**.

(a) **Based only on the characteristic provided**, explain why he is **wrong**. [1]

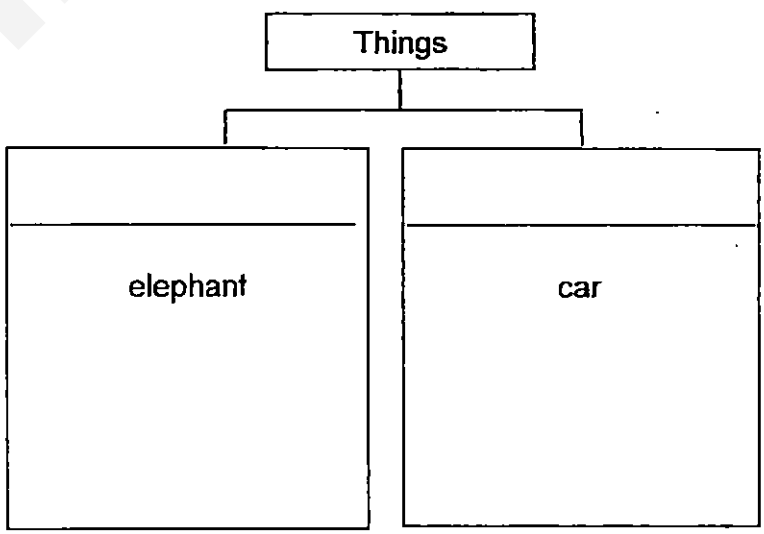
_____

_____

(b) Classify the items below and complete the classification chart with **proper headings.** The 'car' and 'elephant' had been classified for you. [2]

car, mushroom, moss, elephant,

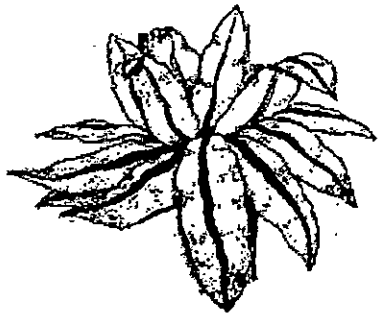
water bottle, television



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26. Study the plants below.



Bird's nest fern



Rose Plant

(a) State one **difference** between the two plants.
(Do not compare shape, size and colour) [1]

_____

_____

(b) How do the rose plants reproduce? [1]

(c) Brian classified "mushroom" in the same group of living things as "bird's nest fern". Explain why he is wrong. [1]

_____

_____

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27. Study the diagram of the four different types of plants shown below.



Plant A Plant B Plant C Plant D

(a) Based on the diagrams, classify plants A, B, C and D into 2 groups in the table below. Give a suitable heading for your table. [2]

(b) Based on plants A and B only, state whether the following statements is True (T) or False (F). [2]

Statements	True/ False
i. Plant A can move freely on its own but plant B cannot.	
ii. Plant A can bear fruits but plant B cannot.	
iii. Plant A can make its own food but plant B cannot.	
iv. Plant A and plant B do not respond to surrounding changes.	

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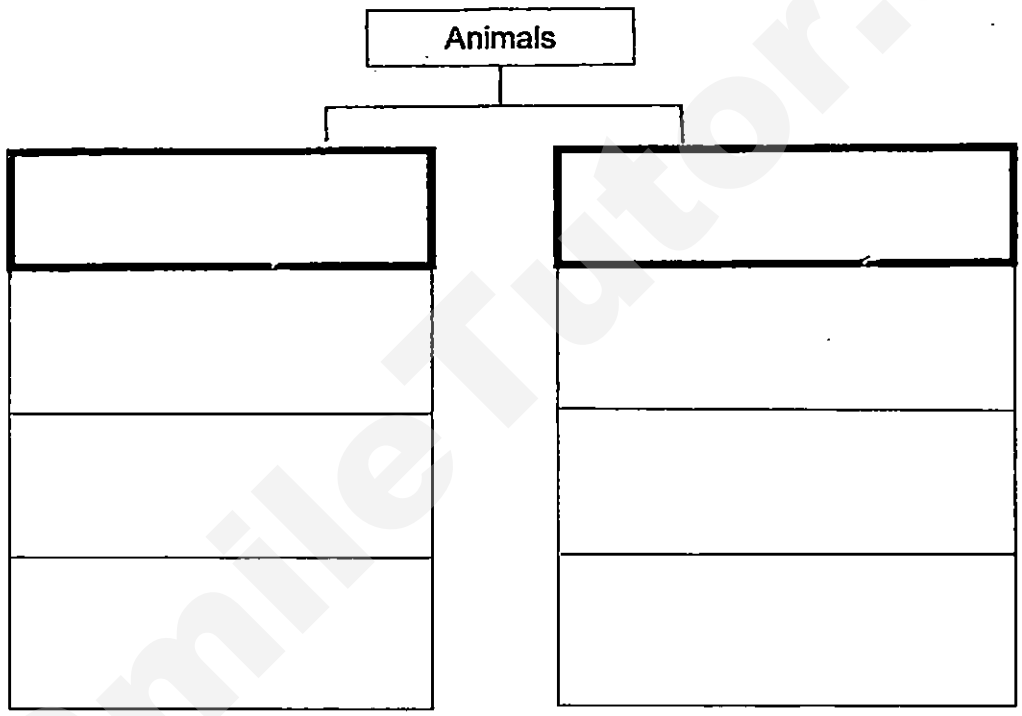
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28. Study the table below.

turtle	crocodile
bat	goldfish
orang-utan	seal

(i) Classify the animals into **two** groups, with 3 animals in each group.
(ii) Give the correct heading for each group.

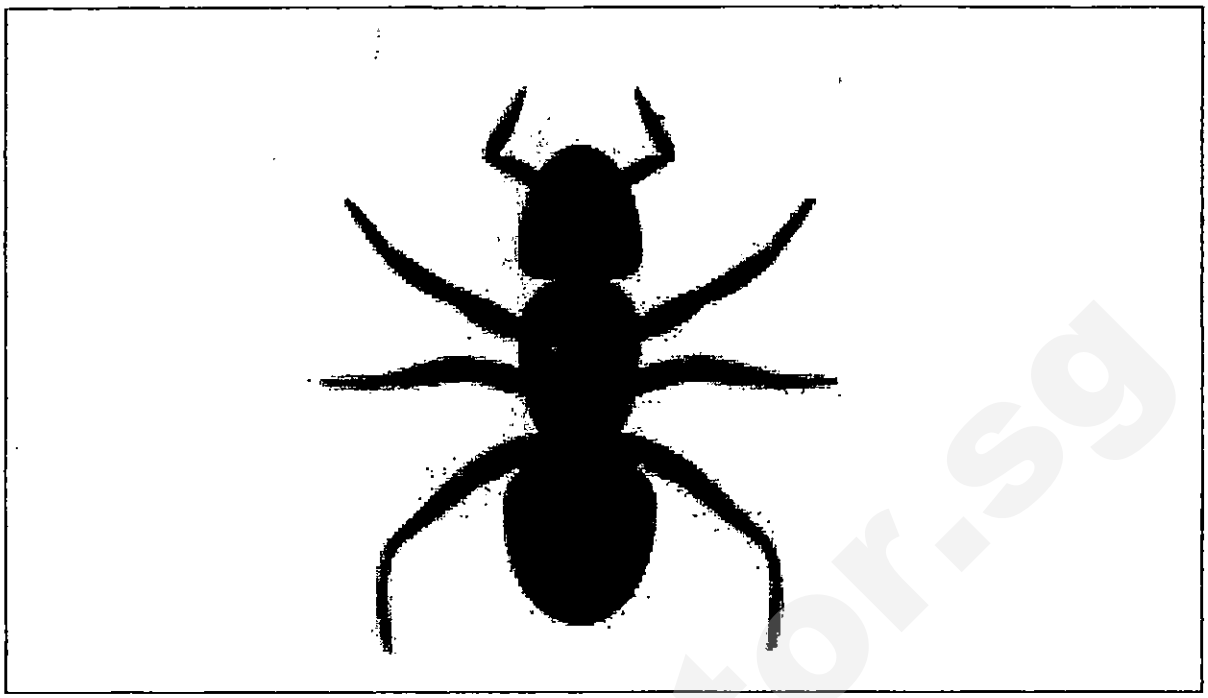
[3]



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29. Study the picture below.



(a) Label the **'feeler'** and **'leg'** in the diagram above [1]

(b) What is the outer covering of the animal above? [1]

_____

(c) State **one** function of the outer covering of the above animal above.

[1]

_____

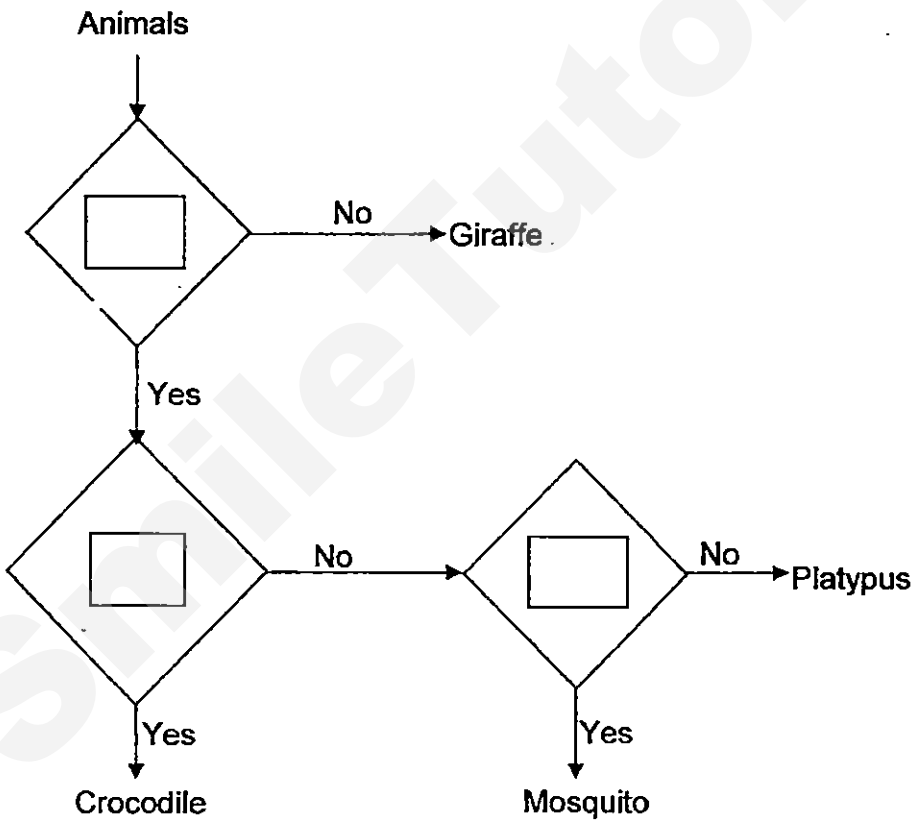
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30. Study the flowchart below. The questions in the flow chart below had been removed. The 3 questions asked are shown in the box below.

Alphabets	Question
A	Does it fly?
B	Does it lay eggs?
C	Does it have scales?

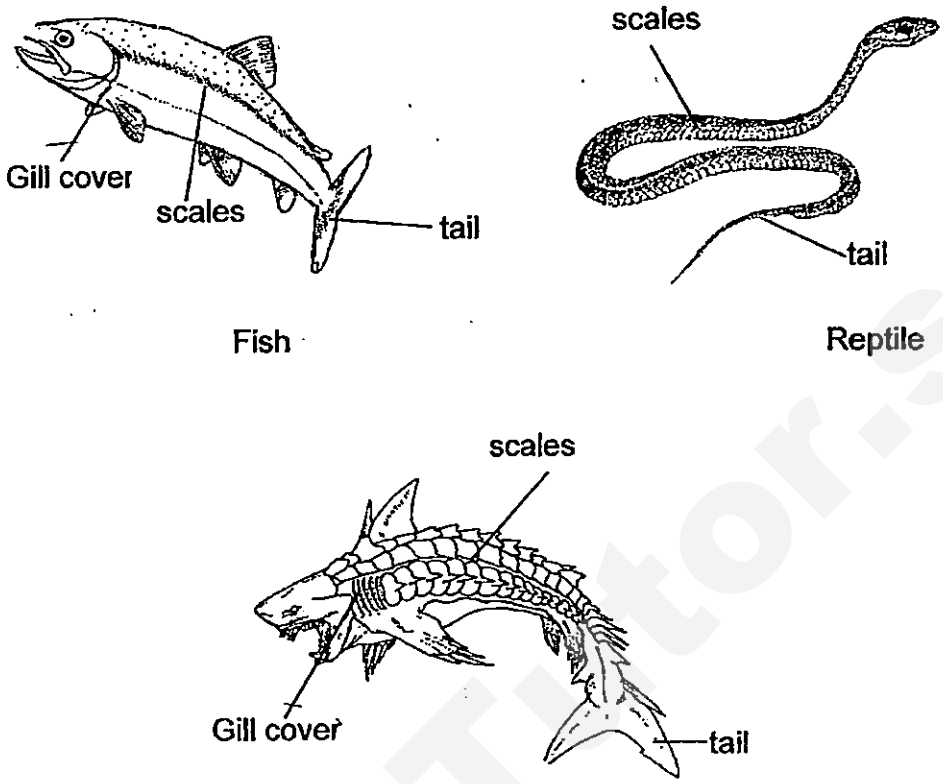
(a) In the flow chart above, write down the questions A, B or C, into the boxes. [3]



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(b) Zack was given an unknown animal X as shown below:



Lucas said that animal X is a reptile. Based on the diagrams above, explain why he is wrong.

[1]

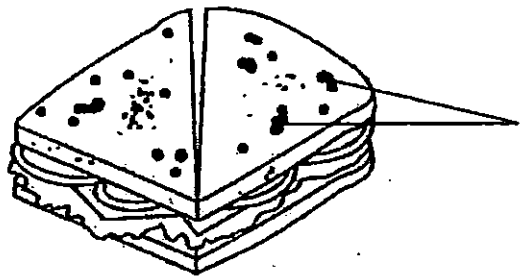
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31. Denise was cleaning her locker and found a sandwich which she had forgotten for a week. She noticed that green patches of bread mould had grown on the bread.



(a) What are the conditions that allowed the mould to grow well in the locker? [1]

_____

(b) How did the mould reproduce on the bread? [1]

_____

_____

(c) Based on the diagram, where did the mould get its food from? [1]

_____

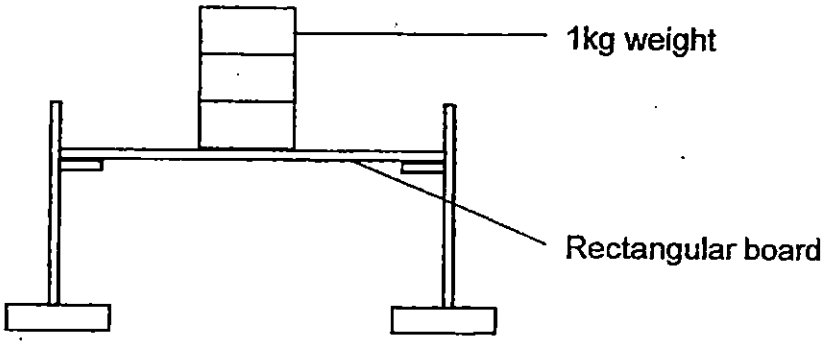
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32. Nathan conducted an experiment using three rectangular boards, A, B and C, which were made of different materials. Using the set-up shown below, he kept adding 1 kg weights onto the board until it breaks. He then recorded the amount of weights that each board could support before breaking.



Rectangular boards	Amount of weights it could support
A	1 kg
B	4 kg
C	3 kg

(a) Which property of the rectangular board was he testing for? [1]

_____

(b) Which board is the most suitable for making a book shelf? Explain your answer. [1]

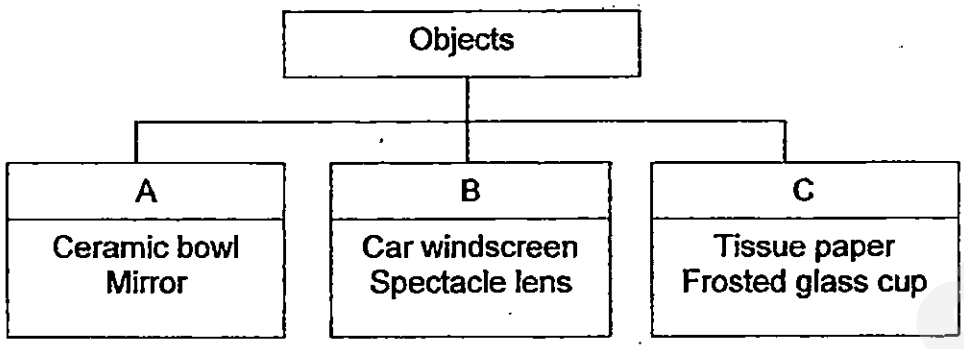
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33. Study the classification chart below.



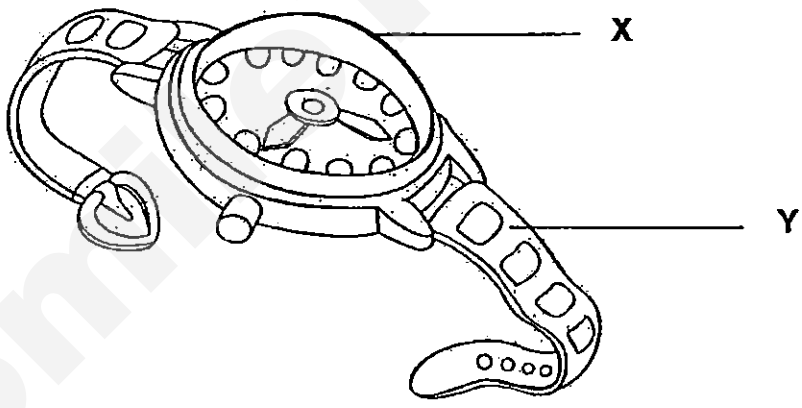
Give suitable headings to represent the properties of the objects in the classification chart above. [3]

A : _____

B : _____

C : _____

34. Study the diagram of the watch below.



(a) State a suitable material that can be used to make part X.
Give a reason for your answer .

(i) X : _____ [1]

(ii) Reason : [1]

_____

_____

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(b) State a suitable material that can be used to make part Y.
Give a reason for your answer .

(i) Y : _____ [1]

(ii) Reason : [1]

_____

_____

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2015 P3 SA1 Answer Key Analysis

Booklet A

1	4	11	1	21	2
2	1	12	2	22	4
3	4	13	4	23	2
4	2	14	1	24	4
5	4	15	4		
6	2	16	4		
7	2	17	2		
8	4	18	2		
9	4	19	4		
10	4	20	3		

Booklet B – Analysis for Selected Questions

25a.

Concept : Living things can move on their own but non-living things cannot move on their own.

Answer : Car **cannot move on their own** but elephant **can move on their own.**

Focus : There must be comparison between the 2 objects given. Comparison must be the characteristic given and highlighted in question stem.

25b.

Focus : Characteristics used to classify the items must be the same. In this case it can only be "Living Things" and "Non-Living Things".

Note : It is more correct to put the full heading down instead of just "Living" and "Non-Living".

26a.

Answer : Bird's nest fern does not bears flowers but the rose plant bears flowers.

Focus : Answer must show comparison. Complete answer will give details of each plant.

Note : Even though how each plant reproduces can also be accepted as an alternative answer, pupils should write down what they can see from the picture Instead of going a further step to deduce how each plant can reproduce.

26c.

Answer : Mushroom is a fungi that **cannot make its own food** and **gets food from the organism it is growing on**, but bird's nest fern is a plant that **can make its own food.**

Focus : Answer must show comparison.

Note : Do not just stop at mentioning "Mushroom cannot make its own food..." complete answer should include how mushroom get their food.

28

Focus : Characteristics used to classify the items must be the same and **specific.**
Correct : "covered with hair" and "covered with scales"
Incorrect : "covered with hair" and "NOT covered with hair"

Note : It is more correct to put the full heading down instead of just "hair" and "scales".

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29c.
Answer : It protects the soft body of the animal. / It gives the animal its shape.
Note : It is more correct to write down " It protects **the soft body of the animal**" instead of " It protects **the animal from predator**".

30a.
Concept : Use of a flow chart.
Answer : B/C/A.
Note : First box can **only** be "B". That will mean that all the animals below the diamond are animals that lay eggs. If first box is not "B", the rest of the flow chart will not stand.

30b.
Answer : Animal X has gill cover (**characteristic**), just like the fish (**explanation**).
OR Animal X has gill cover (**characteristic**) but the reptile does not have gill cover, it has lungs instead (**explanation**).

31a.
Concept : Mould is a living thing so it needs air, water and food. But in order to grow WELL, mould needs to have additional conditions of warmth and moisture.
Answer : Mould needs moisture and warmth to grow well.
Note : Dark is not a condition for mould to grow well.

31c.
Concept : Mould gets its food from the **organism** it is growing on.
Answer : The mould gets its food from the **bread** it is growing on.
Note : Relate answer to question, "bread" is used in the answer instead of "organism"

32b
Answer : B(**choice**), it can hold the most weights without breaking(**data**) so it is the strongest board(**explanation**).
Focus : Data given in the question must be used for such question. Complete answer should consist of 3 parts: Choice, Data, Explanation.
Note : However, since this the Science written assessment, we give the full mark if Choice and Data or Choice and explanation is given.

33
Concept : Opaque : does no allow light to pass through
Transparent : allows MOST light to pass through
Translucent : allows SOME light to pass through
Focus : The same property of all the items,Transparency, is used to classify them into 3 groups.
Note : Use the correct term and description.
Transparent material DOES NOT allow ALL light to pass through.

34ai.
Note : When giving reason for selecting certain material, there are 2 parts to the answer : Property and Explanation of uses.
Answer : Glass is used because it is transparent(**property**) so we can see the time on the watch's face(**explain use**).

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Suggested Answers for Booklet B

25 (a)	The elephant can move on its own but the car needs someone to move it. ***Avoid saying "...but the car cannot" as this is a partial answer which deserves partial mark.***
25 (b)	Living things: elephant, mushroom, moss Non-living thing: car, water bottle, television ***headings MUST always be a pair based on the same charateristics/properties***
26 (a)	Bird's nest fern is a non-flowering plant but the rose plant is a flowering plant. ***Must show comparison when asked for difference.*** ***Bird's nest fern DO have stems!***
26 (b)	They reproduce by seeds
26 (c)	Mushroom absorbs food from its surroundings but bird's nest fern can make its own food.
27 (a)	Have flowers: Plant A, Plant C Does not have flowers: Plant B, plant D
27 (b)	i. False ***Plants cannot move freely on its own. They only show growth movement.*** ii. True ***iii.***False ***All plants can make food*** iv. False ***All living things can respond to surrounding changes***
28	Lay eggs: crocodile, turtle, goldfish Give birth to young alive: bat, orang utan, seal ***Headings must result in each group having only 3 animals. Hedings must be a pair based on the same charateristics.***
29 (a)	***Lines should not be crossed. Label in pencil. Many pupils forgot to answer this question!***
29 (b)	Hard outer covering / exoskeleton
29 (c)	To protect its soft body
30 (a)	B C, A ***As it is a flowchart, the answer to the first box must be correct before marks could be awarded. Otherwise, the error is carried forward to all the other organisms.***
30 (b)	Animal X has gill cover like a fish but reptiles do not have gill cover. ***Must show comparison. Do not just state what Reptiles/fish have. Answer must be linked to the observation of what the animal X has.***
31 (a)	The locker is warm and moist. ***Mould does NOT need darkness in order to grow well.*** ***Food is not a condition of the locker.***

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31 (b)	Mould reproduce by spores.
31 (c)	It gets its food from the bread that it is growing on. ***Be specific in the answer.***
32 (a)	Strength
32 (b)	B, It could support the most weight without breaking. ***Must show comparison between all 3 boards.***
33	A: Does not allow light to pass through B: Allows most light to pass through C: Allows some light to pass through ***Headings must be based on the same property of degree of transparency to light***
34 (a)	If X is interpreted as the watch face:- i. Glass/Plastic ii. Glass/Plastic allows light to pass through so the user can see through it to tell the time. If X is interpreted as the casing of the watch face:- i. Metal/plastic/rubber ii. It is strong and will not break easily when dropped. ***Reason must be based on property + function***
34 (b)	i. Leather/plastic/rubber ii. It is flexible and allow the user to put it on the wrist easily/comfortably. OR i. Metal ii. It is strong and will not break easily when dropped. ***Reason must be based on property + function***

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PAYA LEBAR METHODIST GIRLS' SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 1, 2015

PRIMARY THREE

SCIENCE

BOOKLET A

NAME : _____

CLASS : P3 _____

DATE : 14 May 2015

TOTAL TIME FOR BOOKLETS A & B: 1 hour

INSTRUCTIONS TO PUPILS

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

ANSWER ALL QUESTIONS.

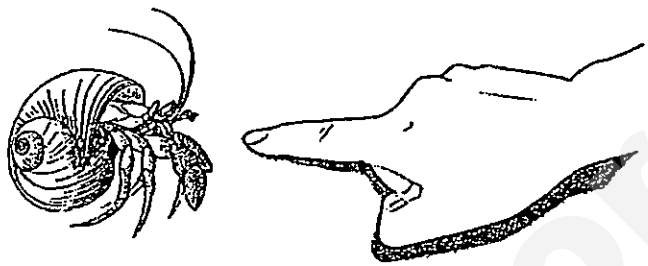
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Section A (15 x 2 = 30 marks)

For each question from 1 to 15, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. The hermit crab pulled its head and legs inside its shell when James touched it.



This shows that the hermit crab is a living thing because it can _____.

(1) grow
(2) reproduce
(3) move from one place to another
(4) respond to changes around them ( )

2. Which of the following characteristics do birds have?

A They lay eggs.
B They have 4 legs.
C They have 3 body parts.
D They are covered with feathers.

(1) A and C only
(2) A and D only
(3) B and C only
(4) B and D only ( )

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3. Study the pictures of bouquets X and Y carefully. The same flowers are used in both bouquets with their roots removed.



bouquet X bouquet Y

2 days later, the flowers in bouquet Y withered and died while those in bouquet X remained fresh.

Based on the diagram above, why did the flowers in bouquet Y wither and die?

(1) The flowers had no soil.

(2) The flowers had no root..

(3) The flowers had no water.

(4) The flowers had no mineral salts.

Some seeds were left to germinate near an open window.



After 3 days, there was still no sign of any germination.
Which one of the following statement best explains this observation?

(1) The seeds were not soft enough.

(2) The seeds did not have enough air.

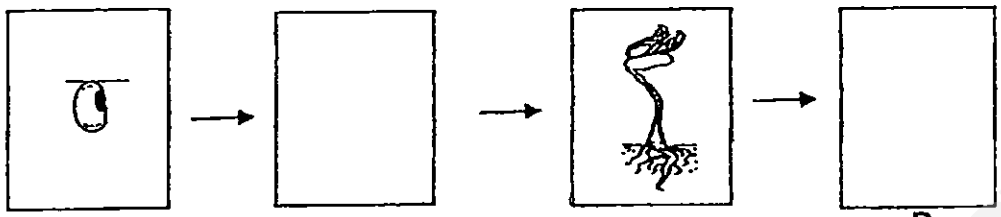
(3) The seeds did not have enough food.

(4) The seeds were no longer living things.

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5. The diagram below shows the growth of a young plant with two missing stages, B and D.



Which one of the following shows the correct stages for B and D?

	B	D
(1)		
(2)		
(3)		
(4)		

( )

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6. Sophie classified some animals in the table shown below.

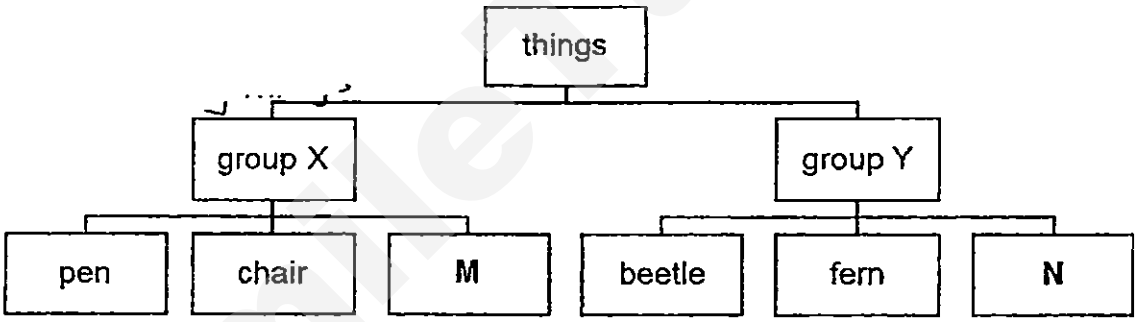
group A	group B
toad	dog
butterfly	dolphin

Which of the following are the correct headings for group A and group B?

	group A	group B
(1)	plant eaters	animal eaters
(2)	breathe through gills	breathe through lungs
(3)	lay eggs	give birth to young alive
(4)	live on land only	live in water only

( )

7. Kai En grouped some things as shown in the classification chart below.



What could **M** and **N** likely to be?

	M	N
(1)	stone	paper clip
(2)	mushroom	bicycle
(3)	chicken	guppy
(4)	paper	rose plant

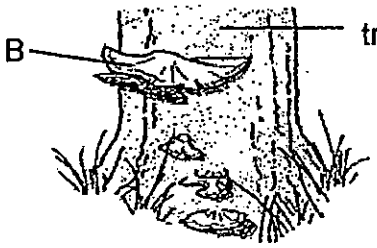
( )

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8. The diagrams below show two living things, A and B.



A



Which of the following statements about these living things is/are **true**?

A They reproduce by spores.

B They need sunlight to make food.

C They feed on other living things, which may be dead or alive.

(1) A only

(2) A and C only

(3) B and C only

(4) A, B and C ( )

9. Faridah wanted to find out what is needed for bread mould to grow. The table below shows the conditions under which 4 similar slices of bread, P, Q, R and S were kept.

Bread	Conditions			
	Dry	Moist	Dark	Warm
P		✓	✓	✓
Q	✓			✓
R		✓	✓	
S	✓		✓	✓

Which bread, P, Q, R or S will become mouldy **first**?

(1) P

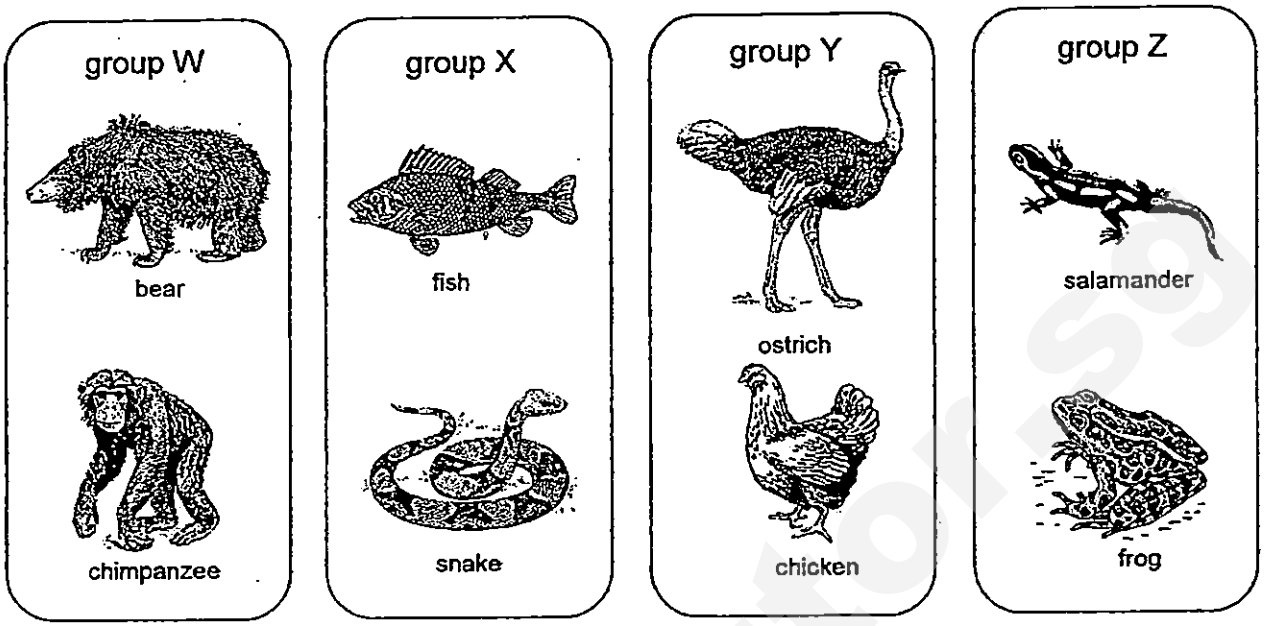
(2) Q

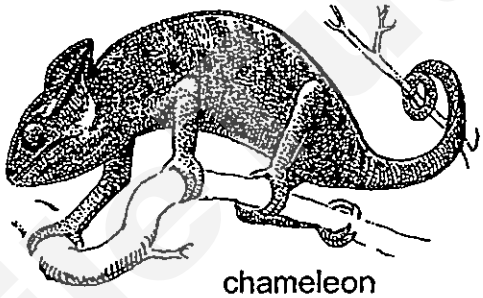
(3) R

(4) S ( )

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10. The animals are grouped according to their similarities.




chameleon

In which group, W, X, Y or Z, would you group the chameleon as shown above?

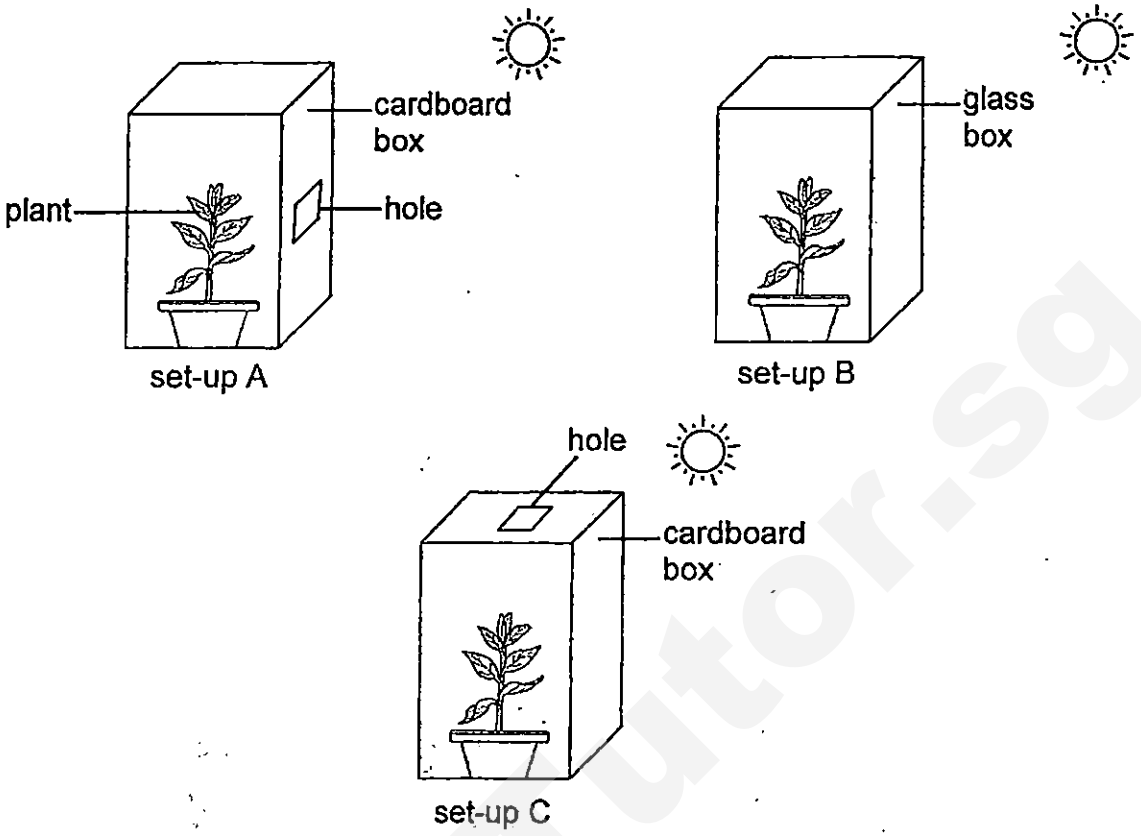
(1) W
(2) X
(3) Y
(4) Z

( )

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11. Look at the set-ups A, B and C as shown below.



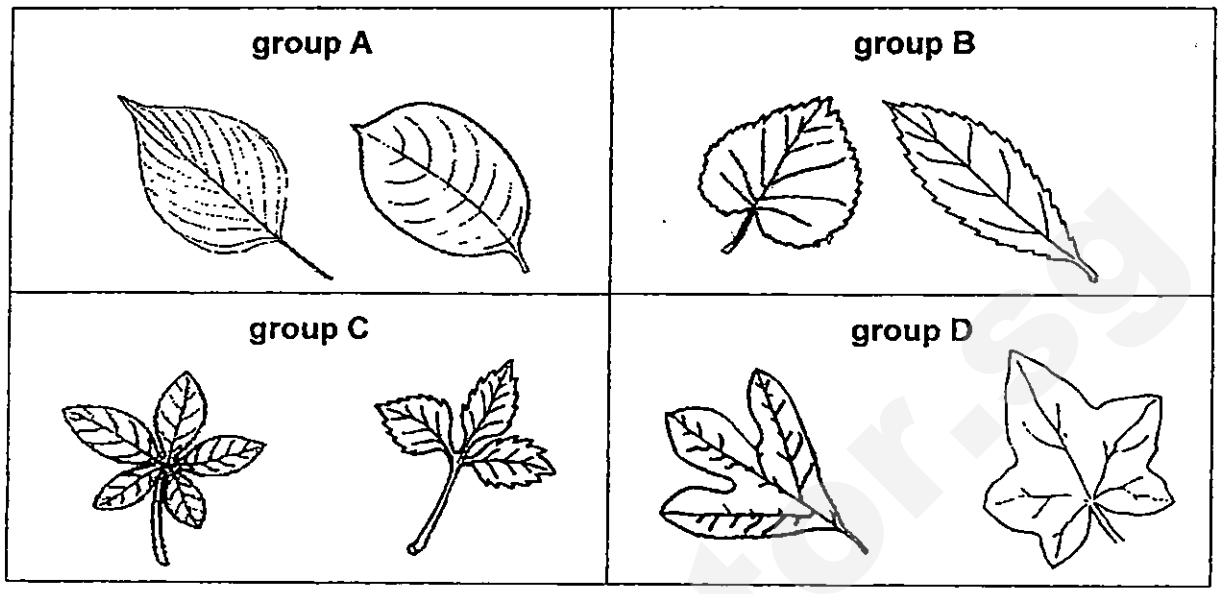
Which of the following set-ups will the plants continue to grow upright after a few days?

	set-ups
(1)	A and B only
(2)	A and C only
(3)	B and C only
(4)	A, B and C

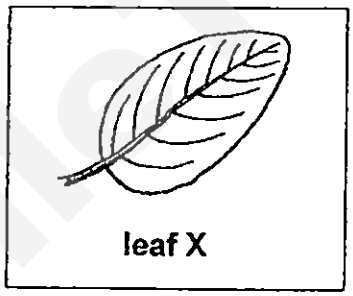
( )

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12. Study the diagrams below carefully.



Which group does **leaf X** belong to?



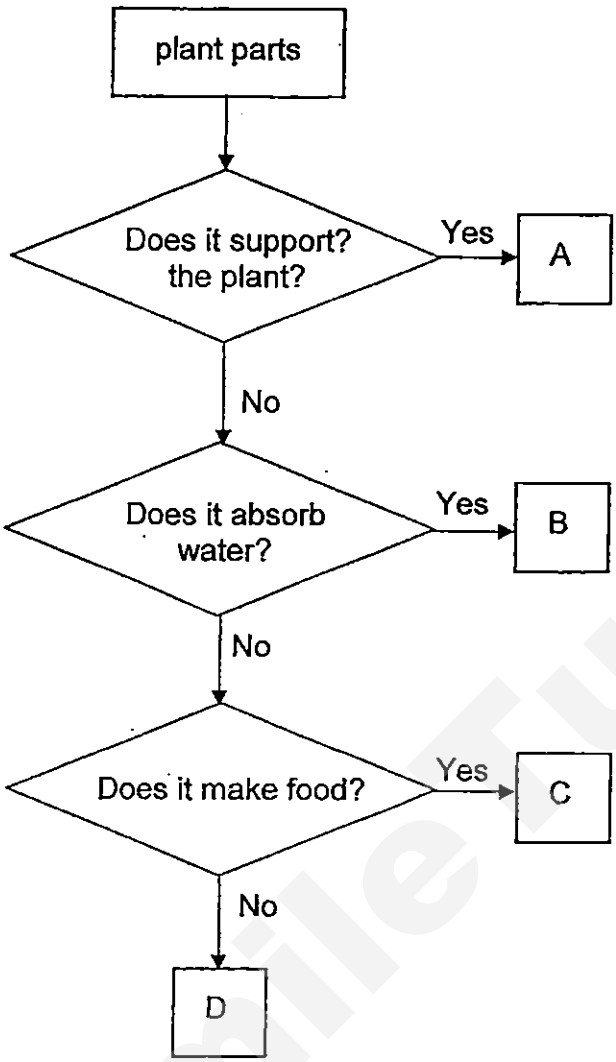
(1) A
(2) B
(3) C
(4) D

( )

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13. Study the flowchart shown below carefully.



Which one of the following plant parts, **A, B, C or D** best represents the leaf?

(1) A
(2) B
(3) C
(4) D

( )

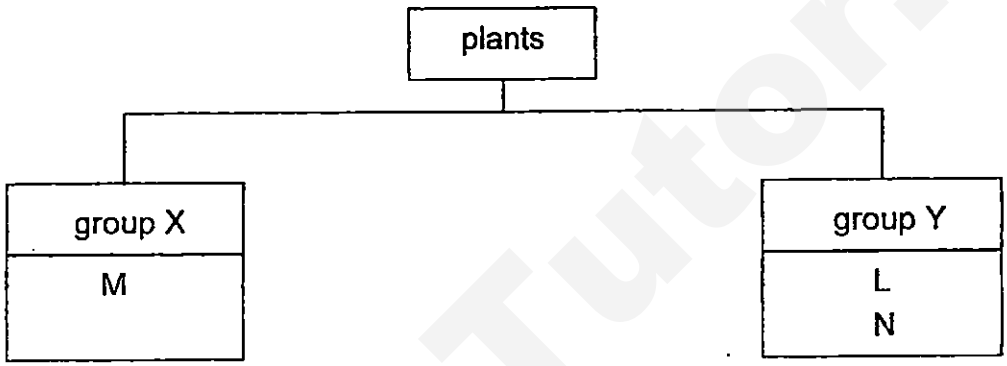
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14. Plants, L, M and N have common characteristics as shown in the table below. A tick (✓) in the box indicates the presence of a certain characteristic.

characteristic	plant		
	L	M	N
found on land	✓	✓	
reproduce by spores		✓	
bear flowers	✓		✓

Using the information above, Ali drew the following diagram to classify them.



What are the suitable headings for group X and group Y?

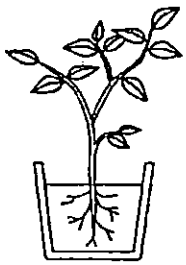
	group X	group Y
(1)	ferns	fungi
(2)	non-flowering plants	flowering plants
(3)	land plants	water plants
(4)	fungi	non-flowering plants

( )

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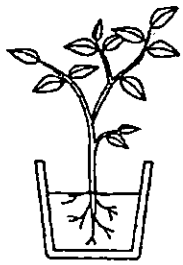
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15. Beth wants to find out if the amount of water given to 4 identical plants would affect its growth. She has 4 set-ups as shown below.



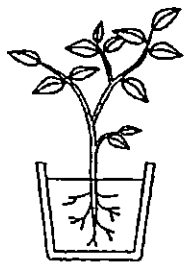
A

150 mℓ of water in the shade



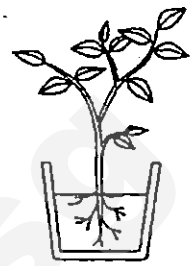
B

50 mℓ of water in the shade



C

150 mℓ of water in the Sun



D

50 mℓ of water in the Sun

Which 2 set-ups should Beth use to ensure a fair test?

(1) A and C only

(2) B and C only

(3) B and D only

(4) C and D only

( )

END OF SECTION A

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PAYA LEBAR METHODIST GIRLS' SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 1, 2015

PRIMARY THREE

SCIENCE

BOOKLET B

NAME : _____

CLASS : P3 _____

DATE : 14 May 2015

TOTAL TIME FOR BOOKLETS A & B: 1 hour

BOOKLET A	/ 30
BOOKLET B	/ 20
TOTAL	/ 50

Parent's Signature: _____

INSTRUCTIONS TO PUPILS

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

ANSWER ALL QUESTIONS.

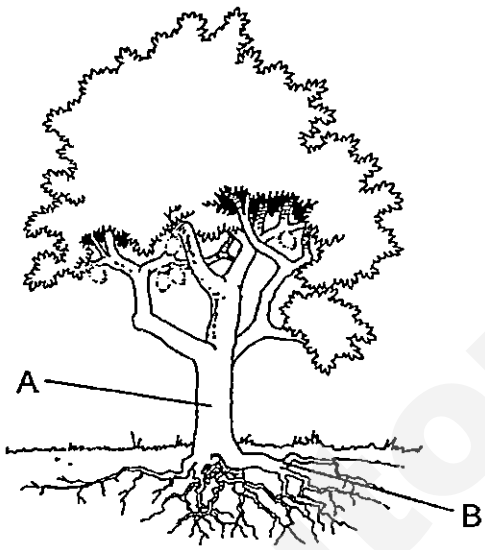
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SECTION B: 20 Marks

For questions 16 to 22, write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part question.

16. Study the diagram below carefully.



(a) Name the plant parts, A and B. [1]

(i) A: _____

(ii) B: _____

(b) State the function of part B. [1]

_____

_____

2

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17. The following are the things that are found in the garden and school canteen.

stone	grasshopper	plate
grass	snail	spoon

(a) Classify all the things in the table provided below. [3]

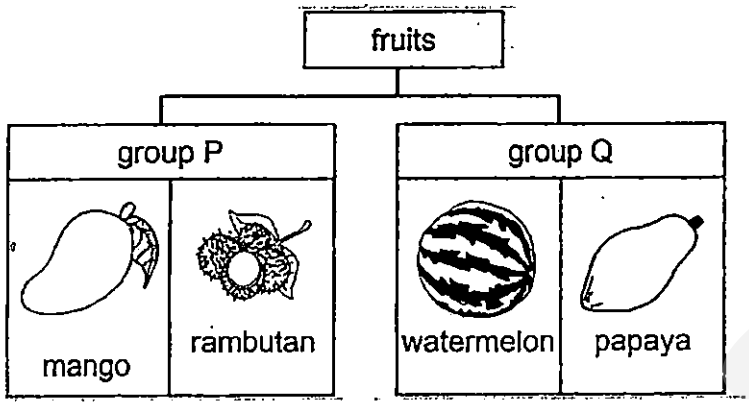
Living Things	Non-living Things

3

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18. Study the classification chart below.



(a) Which characteristic is used to group the fruits above?

_____

(b) Based on your answer in (a), state the suitable headings for the fruits. [1]

Group P: _____

Group Q: _____

(c) In which group, P or Q, will you place "apple"? [1]

Group _____

(d) What is the difference in the method of reproduction between a mango plant and a fern? [1]

_____

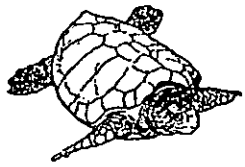
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4

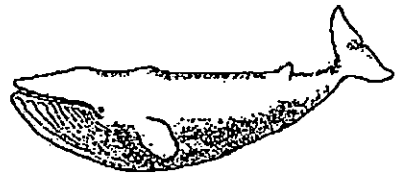
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19. Compare a turtle and a whale.



turtle



whale

(a) How different are their outer covering? [1]

_____

_____

(b) How different do they reproduce? [1]

_____

_____

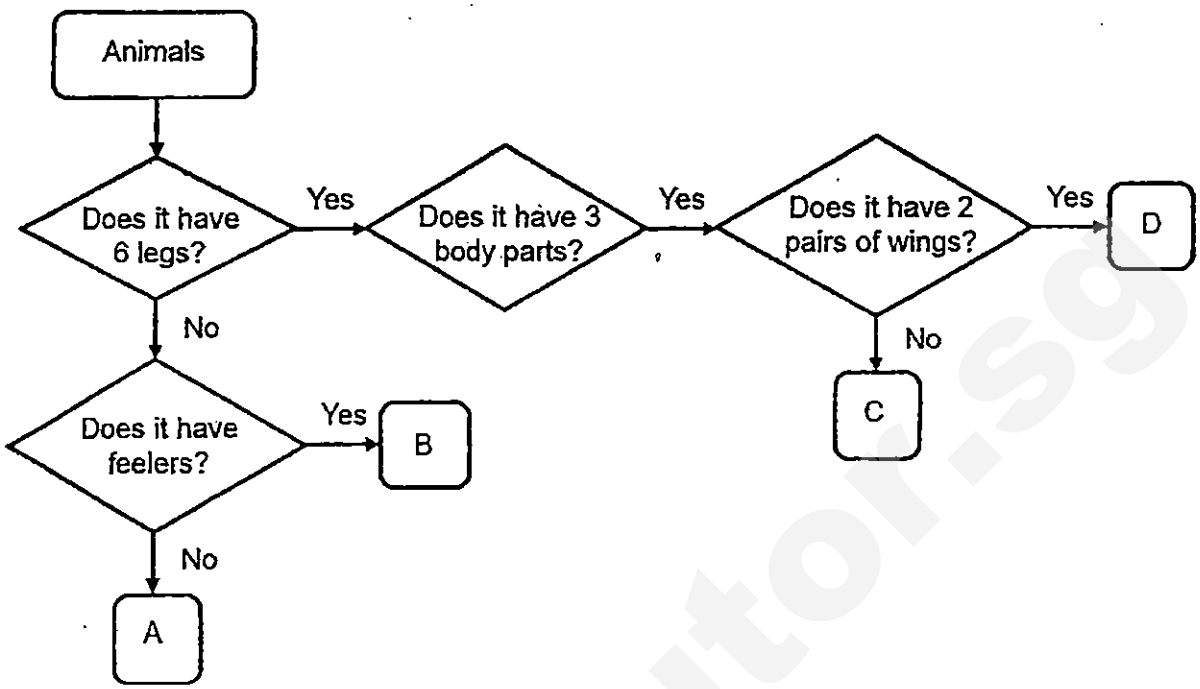
2

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20. Study the flowchart carefully.



(a) From the information given in the flowchart, state **two** characteristics of animal B. [1]

_____

_____

(b) State one difference between animal A and animal C. [1]

_____

_____

(c) Which group of animals does animal D belong to? [1]

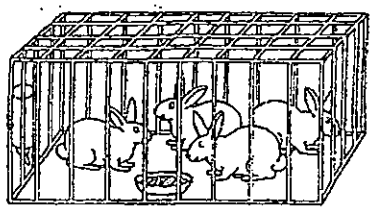
_____

3

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21. Alice kept 4 rabbits in a cage in the garden and fed them every day.

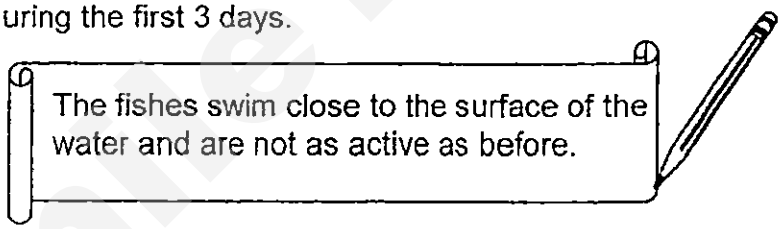


She recorded the number of rabbits in the cage at the end of every month in the table below.

Month	Number of rabbits
April	4
May	4
June	3
July	1

(a) What happened to the number of rabbits over the 4 months? Give a reason for the change in the number of rabbits if she did not remove any rabbits from the cage. [1]

She also bought 5 fishes and placed them in a fish tank. She made the following observations during the first 3 days.



(b) Suggest a possible reason for Alice's observation. [1]

(c) Without changing the fish tank, state 2 possible things Alice can do to ensure that the fishes remain healthy. [1]

(i) _____

(ii) _____

(d) What characteristic of living things is the fishes showing when they swam close to the water surface? [1]

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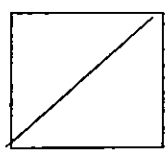
22. Bala started to grow some bean plants. For one of the plants, he measured the size of the seed leaves and the height of the plant and recorded the data in a table as shown below.

Size of the seed leaves (cm)	4	3	2	1
Height of the plant (cm)	2	3	4	6

(a) What happens to the size of the seed leaves as plant grows taller ? [1]

(b) Explain your answer in part (a). [1]

END OF SECTION B



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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : PAYA LEBAR METHODIST GIRLS' SCHOOL
SUBJECT : SCIENCE
TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	3	4	4	3	4	2	1	4
Q11	Q12	Q13	Q14	Q15					
2	1	3	2	1					

Q16ai) A: stem Q16aii) B: Roots
Q16b. It holds the tree firmly to the ground.

Q17a.

Living Things	Non –living things
grass	plate
grasshopper	spoon
snail	stone

Q18a. They are grouped according to the number of seeds in the fruits.
Q18b. Group P: Has one seed only Q18b. Group Q: Have a few seeds
Q18c. Group Q Q18d. Mango plants reproduce by seeds but ferns reproduce by spores.

Q19a. The turtle's outer covering is scale but the whale's outer covering is hair.
Q19b. The turtle reproduce by laying eggs because it is a reptile but the whale reproduce by giving birth to their young alive because it is a mammal.

Q20a. Animal B does not have 6 legs and it have feelers.
Q20b. Animal A does not 6 legs but animal C has 6 legs.
Q20c. Animal D belongs to the insects groups.

Q21a. Over the 4 months, 3 rabbits had died. They had enough water because there is only one bottle of water in the cage. The number of rabbits decreased.
Q21b. There was not enough air in the fish tank.
Q21c i) Feed the fishes daily. Q21c ii) Put in an air pump
Q21d. They respond to changes around them.

Q22a. The size of the seed leaves will decrease and drop off.
Q22b. As the plant grows taller, it uses the food stored in the seed leaves.

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PEI HWA PRESBYTERIAN PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1

PRIMARY 3
SCIENCE
(BOOKLET A)

15 MAY 2015

Name: _____ ( )

Class: 3 _____

Total time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

1. Write your Name, Class and Register No. in the spaces provided above.
2. DO NOT turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers on the Optical Answer Sheet (OAS) provided.

This booklet consists of 13 printed pages, excluding the cover page.

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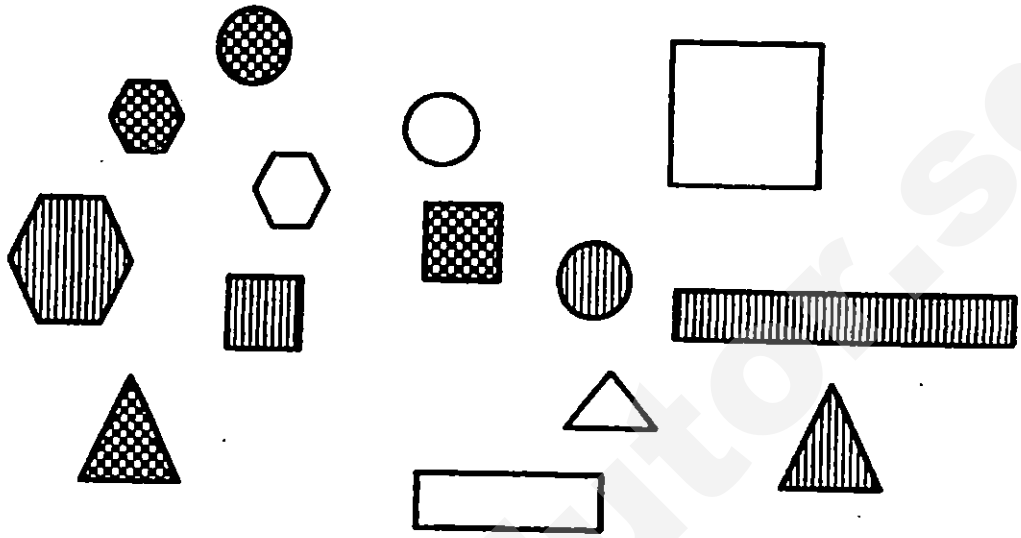
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For each question, from 1 to 15, four options are given. Only one of them is correct. Make your choice (1, 2, 3, or 4) shade the correct oval (1, 2, 3, or 4) on the Optical Answer Sheet.

(30 marks)

1. The following are 14 different objects.



Sandy wants to classify the above objects based on their shapes. How many groups will she have in her classification chart?

(1) 3

(2) 5

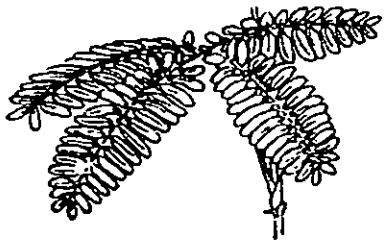
(3) 14

(4) 15

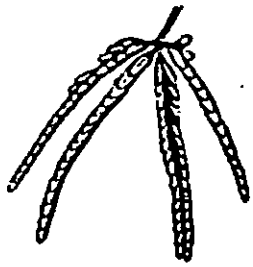
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2. The diagrams below show the leaves of a plant that Gina observed before she touched them and after she touched them.



Leaves before Gina touched



Same leaves after Gina touched

Which characteristic of living things is shown by what Gina observed?

(1) Living things can grow.

(2) Living things can move by themselves.

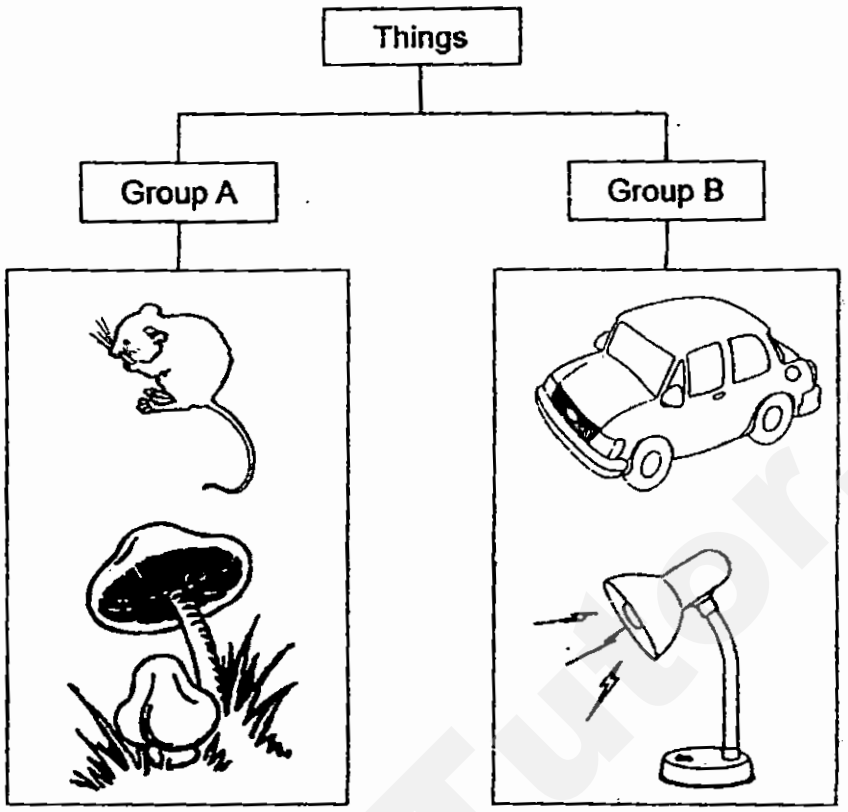
(3) Living things need air, food and water to survive.

(4) Living things can respond to changes around them.

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3. The diagram below shows how some things have been classified.

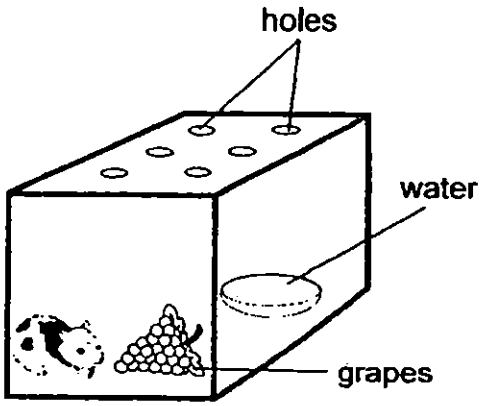


Which of the following things can be classified under Group A?

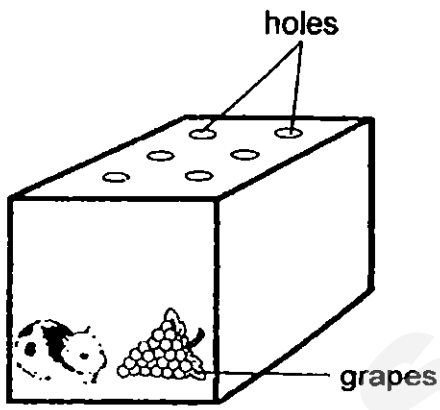
(1) clock
(2) pencil
(3) computer
(4) caterpillar

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4. Study the following diagrams with two hamsters, Hamster A and Hamster B.



Hamster A



Hamster B

Each hamster is given the same amount of food shown above every day. Which hamster can live longer? Why?

(1) Hamster A. It has air.

(2) Hamster A. It has food, air and water.

(3) Hamster B. It has food.

(4) Hamster B. It has food, air and water.

5. The table below shows the characteristics of 2 things, A and B. A tick (✓) means that the characteristic is observed while a cross (X) means that the characteristic is not observed.

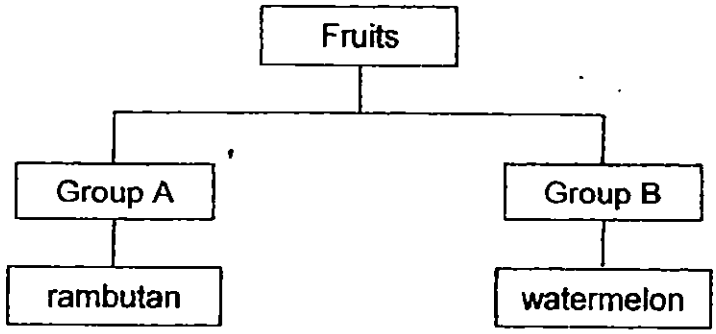
	Characteristics		
Things	**Can grow**	**Can reproduce**	**Can move**
A	✓	✓	✓
B	X	X	✓

Based on the table above, which of the following best represents A and B?

	A	B
(1)	dog	tree
(2)	rock	mouse
(3)	whale	aeroplane
(4)	spider	lamp post

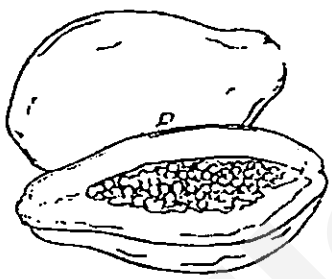
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6. The classification chart below shows fruits classified based on the number of seeds.



Which of the following fruits below could be classified under Group B?

(1)



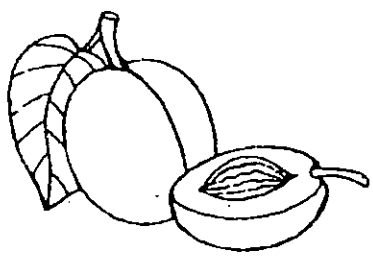
(2)



(3)



(4)

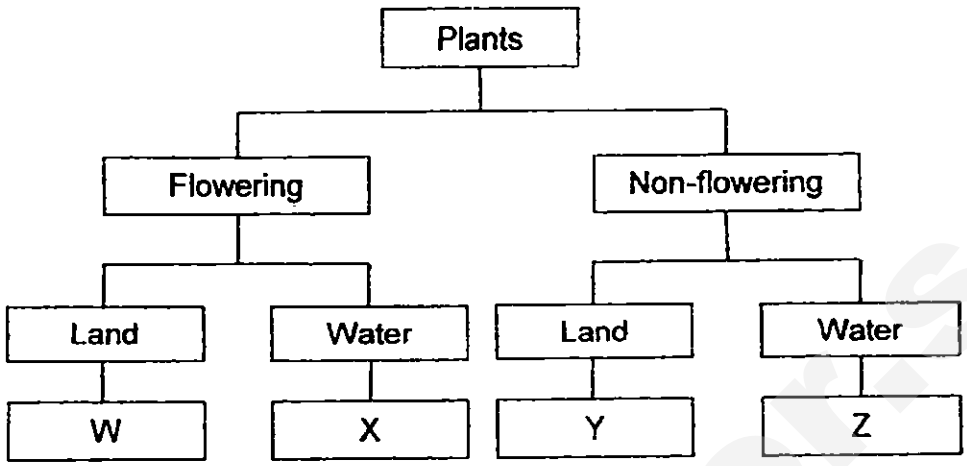


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7. Four plants, W, X, Y and Z, are classified in the classification chart below.



Based on the classification chart above, which of the following plants is a non-flowering land plant?

(1) W

(2) X

(3) Y

(4) Z

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8. The diagrams below show two living things.



Jasmine



Bird's nest fern

Based on the diagrams shown above, which of the following statements is true?

(1) Jasmine is a plant but the bird's nest fern is a fungi.

(2) Jasmine and bird's nest fern are non-flowering plants.

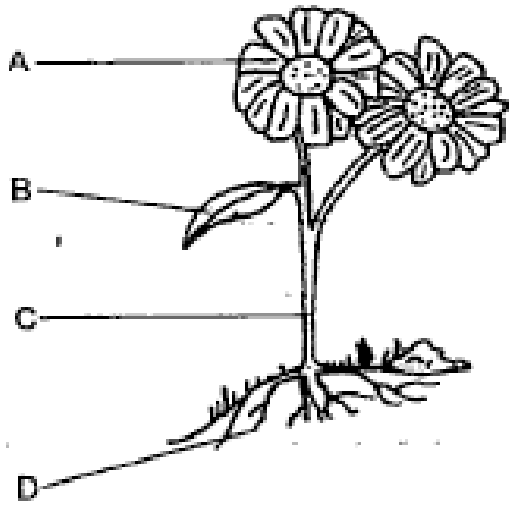
(3) Jasmine and bird's nest fern cannot make their own food.

(4) Jasmine can produce fruits and bird's nest fern can produce spores.

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9. The diagram below shows a plant.



Which part of the plant, A, B, C or D, is the root?

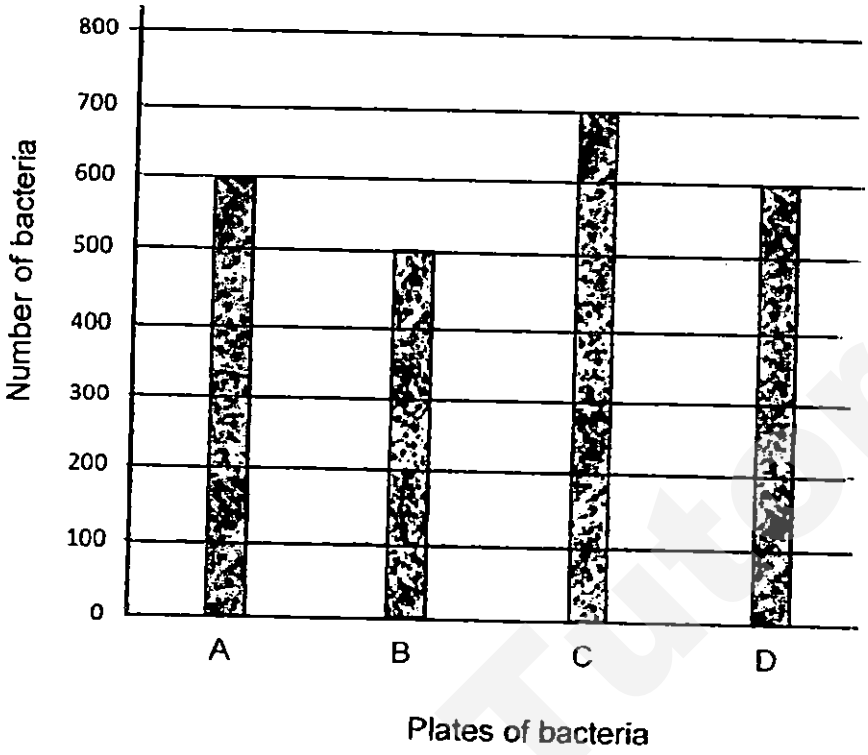
(1) A
(2) B
(3) C
(4) D

10. Which one of the following statements about bacteria is true?

(1) All bacteria are harmful.
(2) All bacteria are microorganisms.
(3) All bacteria have the same shape.
(4) Bacteria can be found in some places only.

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11. Samy grew 4 different types of bacteria on 4 plates, A, B, C and D. All plates contained the same number of bacteria in the beginning. After some time, he counted the number of bacteria on each plate and recorded his results in the graph below.



Based on the graph above, which plate of bacteria, A, B, C or D, grew the fastest?

(1) A

(2) B

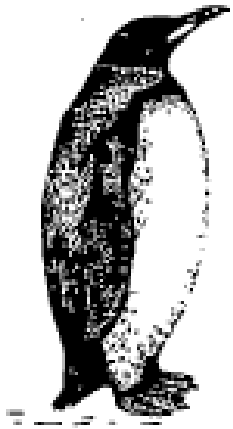
(3) C

(4) D

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12. Ali sketched an animal, Animal X, in his journal as shown below.



Animal X

He made some notes about Animal X as follows:

A It has wings.

B It cannot fly.

C It has feathers.

D It can move in water and on land.

Which of the above statements could he use to identify the group of animals that Animal X belongs to?

(1) C only

(2) D only

(3) A and C only

(4) B and D only

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13. Which one of the following animals does not have the same outer covering as the others?

(1)



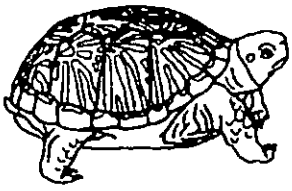
salamander

(2)



snake

(3)



turtle

(4)

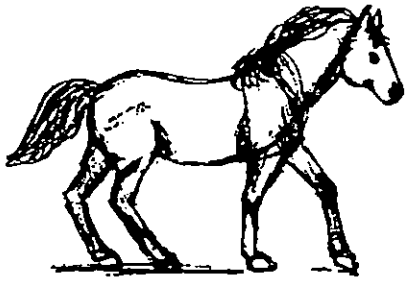


lizard

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14. Brian decided to group the following animals into one group.



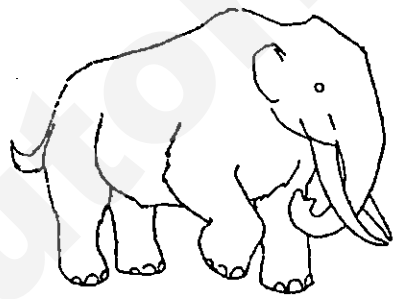
Animal A



Animal B



Animal C



Animal D

Xiao Wei said that the animals could be grouped in a different way. She then separated Animal B from the rest of the animals.

Which of the following statements best describes why Xiao Wei did so?

(1) Animal B gives birth but the others lay eggs.

(2) Animal B produces milk but the others do not.

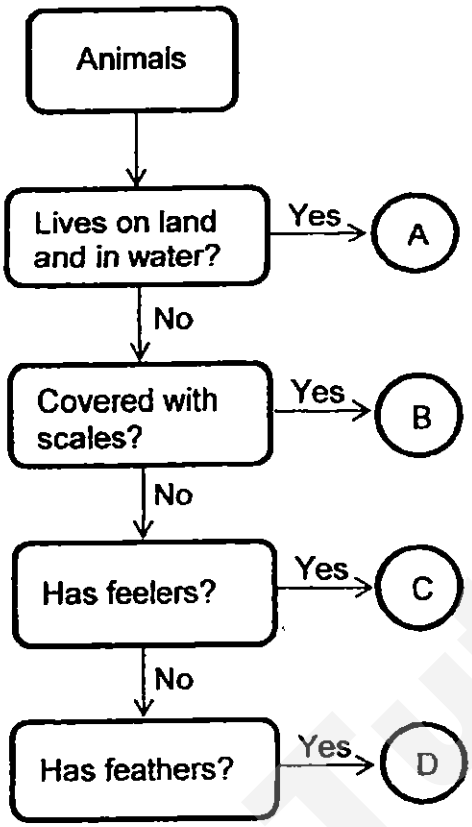
(3) Animal B is a fish but the others are mammals.

(4) Animal B lives in water but the others live on land.

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15. Study the flow chart below.



Which letter, A, B, C or D, in the flow chart above represents a cockroach?

(1) A
(2) B
(3) C
(4) D

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PEI HWA PRESBYTERIAN PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 1

PRIMARY 3

SCIENCE

(BOOKLET B)

15 MAY 2015

Name: _____ ( )

Class: 3 _____

Parent's Signature

Total time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

1. Write your Name, Class and Register No. in the spaces provided above.
2. DO NOT turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write all your answers in this booklet.

Marks (Booklet A) :	30
Marks (Booklet B) :	20
Total Marks (Booklets A & B) :	50

This booklet consists of 7 printed pages, excluding the cover page.

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For questions 16 to 22, write your answers in this booklet.
The number of marks available is shown in brackets [ ] at the end of each question or part question. (20 marks)

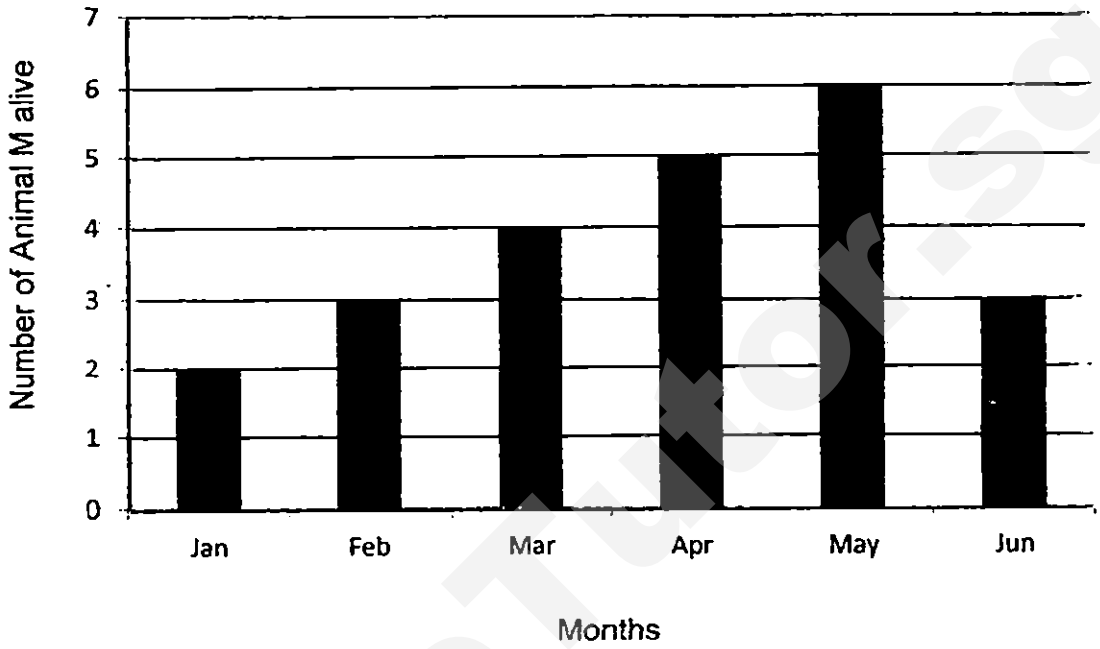
16. Write 'T' for every true statement and 'F' for every false statement in the column provided. [2]

	Statements	T or F
a)	All fruits are edible.	
b)	Plants can make their own food.	
c)	All animals depend only on plants for food.	
d)	Flowering plants can only live on land.	

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17. Hannah left two Animal M in a cage over a period of time. She fed them with the same amount of food and water every day. The bar graph below shows the number of Animal M alive in the cage over six months.



(a) Based on the graph, what do you notice about the number of Animal M from January to May? [1]

_____

(b) Give a reason for your answer in (a). [1]

_____

(c) Based on the information given above, explain why there is a decrease in the number of Animal M alive in the month of June. [1]

_____

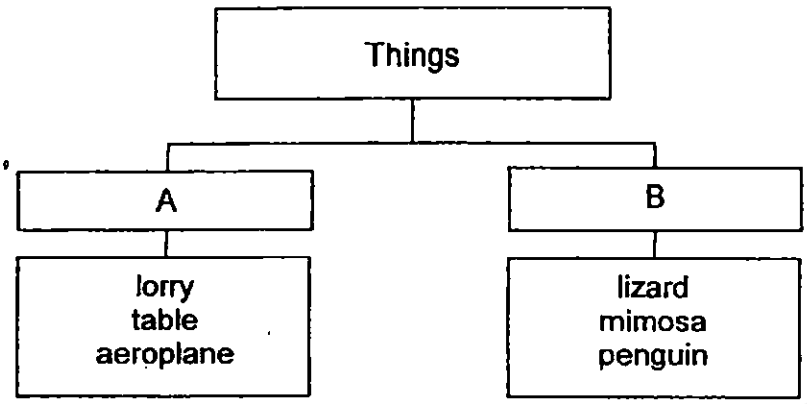
_____

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18. The following classification chart shows how 6 things can be classified.

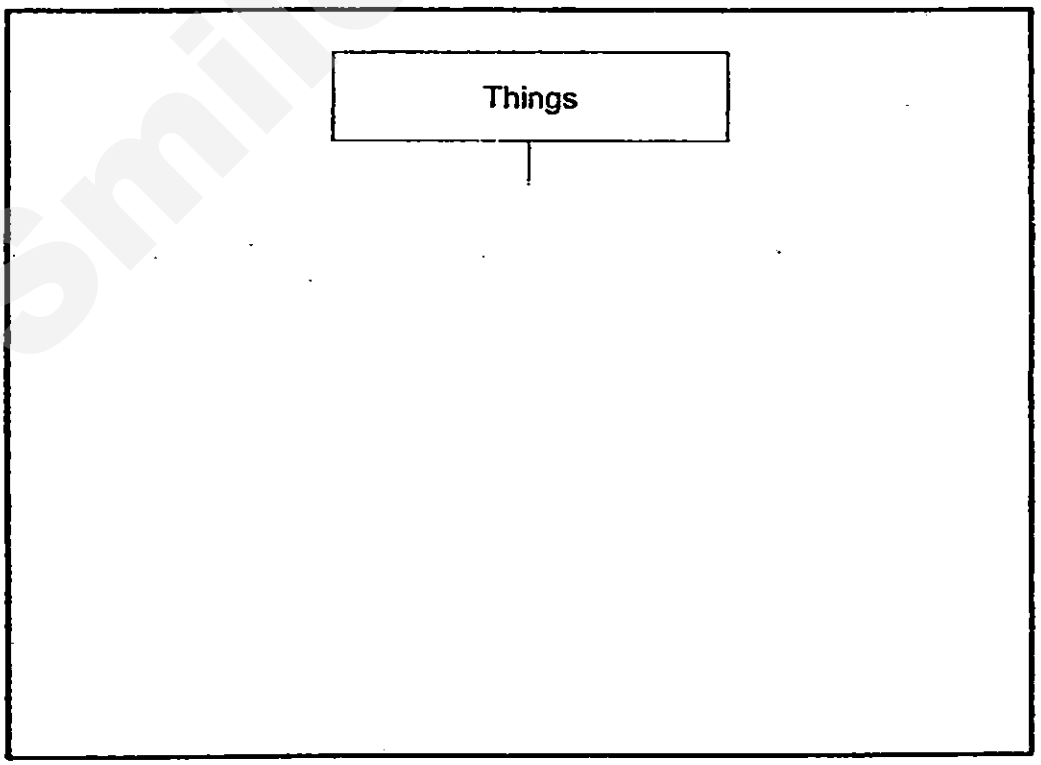


(a) Give a suitable sub-heading for A and B. [1]

A: _____

B: _____

(b) The 6 things can be re-classified in another way.
Draw a classification chart in the space below to show how the 6 things can be re-classified. [1]



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19. Rudy wanted to find out the conditions of mould growth on bread. He conducted an experiment with similar slices of bread each placed on a table as shown below.

	Bread A	Bread B	Bread C	Bread D
Place	air-conditioned room	air-conditioned room	non-airconditioned room	non-airconditioned room
Condition of bread	Toasted	Not toasted	Toasted	Not toasted

(a) Which bread would likely have mould growing on it first and which bread would not have mould growing on it? [1]

(i) First bread to turn mouldy : _____

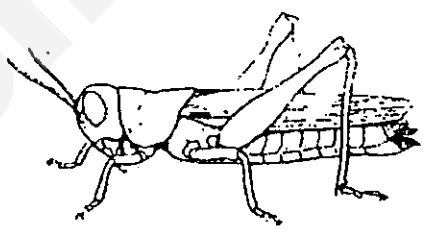
(ii) The bread that does not turn mouldy : _____

(b) Explain your answer in (a) (ii). [2]

_____

_____

20. Study the diagram of an animal below.



(a) In which group of animals would you place the animal above? [1]

_____

(b) Which physical characteristic of the animal above supports your answer in (a)? [1]

_____

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21. Sally observed three plants, A, B and C, and recorded her observation in the table below.

	Plants		
Characteristics of plants	**A**	**B**	**C**
Has flowers?	Yes	Yes	No
Has green leaves?	Yes	Yes	Yes
Floating water plant?	Yes	No	Yes

(a) Based on the information given in the table above, state all the characteristics of Plant A. [1]

_____

(b) Which plant, A, B or C, can a water moss be? [1]

_____

(c) State a difference between Plant B and Plant C. [1]

_____

(d) Based on the table above, Sally said that Plant C is a non-flowering plant.

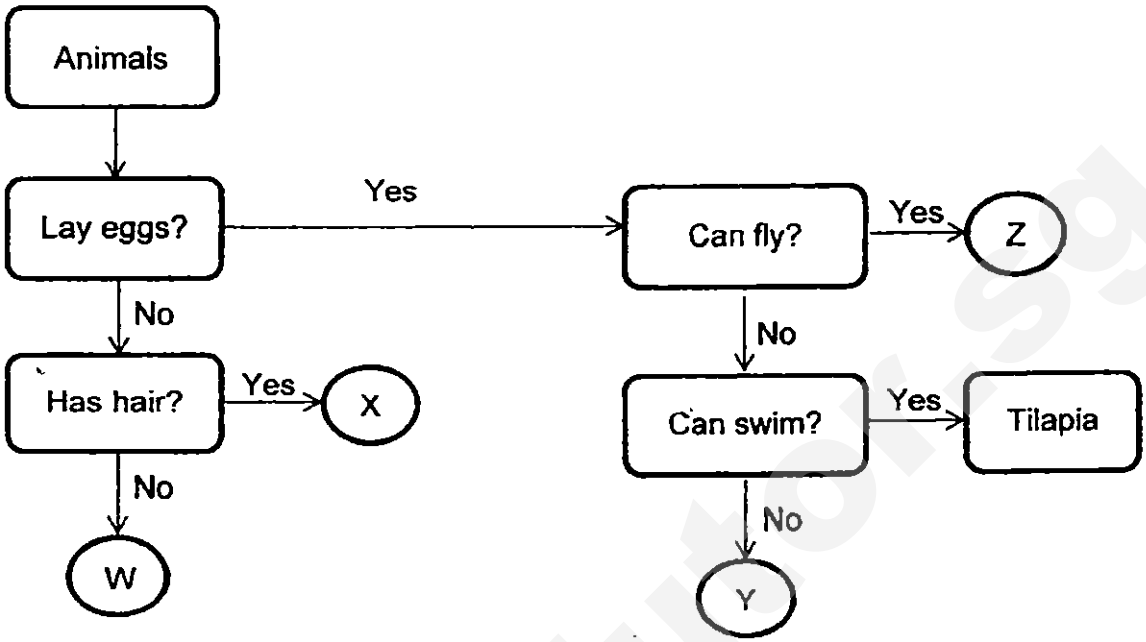
Do you agree? Explain your answer. [1]

_____

_____

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22. (a) Study the flow chart on four animals, W, X, Y and Z below



(i) State one similarity between animal Y and animal Z. [1]

_____

_____

(ii) Which letter, W, X, Y or Z, in the above flow chart best represents a chicken? [1]

_____

Question 22 continues on page 20

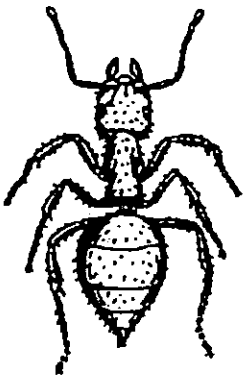
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(b) Study the diagrams of two animals, Animal A and Animal B, below.



Animal A



Animal B

(i) Based on the above diagrams, state one similarity in the physical characteristic between Animal A and Animal B. [1]

_____

_____

(ii) Based on the above diagrams, state one difference in the physical characteristic between Animal A and Animal B. [1]

_____

_____

End of paper

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : PEI HWA PRESBYTERIAN PRIMARY SCHOOL
SUBJECT : SCIENCE
TERM : SA1

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
1	**4**	**4**	**2**	**3**	**1**	**3**	**4**	**4**	**2**
Q 11	Q 12	Q 13	Q 14	Q 15					
3	**1**	**3**	**4**	**3**					

Q16. a) F b) T c) F d) F

Q17.a) There was a increase of Animal M.
b) Animal M may have reproduced and gave brith.
c) Animal M died as there as not enough food.

Q18. a) A: Non-Living things B: Living things
b) *no model answer, logical answers are accepted*

Q19. a) i) Bread D ii) Bread A
b) Mould needs dark and humid environment to grow. In an air-conditioned room, there is no moisture in the air therefore, mould will not grow.

Q20. a) I would place it in the group called insects.
b) The animal has a pair of feelers, three body segments and six legs.

Q21. a) Plant A has flowers, green leaves and it floats on water.
b) Plant C can be a water moss.
c) Plant B has flowers while Plant C does not produce flowers.
d) No, I do not agree with Sally. The plant may not have flowers as they have not developed yet.

Q22. a) i) Both Animal Y and Z reproduce by laying eggs.
ii) Y best represents a chicken.
b) i) Both have a pair of eyes.
ii) Animal A has a beak whereas Animal B does not have.

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RAFFLES GIRLS' PRIMARY SCHOOL

SEMESTRAL ASSESSMENT (1) 2015

Section A	36
Section B	24
Your score out of **60 marks**	
Parent's signature	

Name : _____ **Index No:** ____ **Class: P3** ___

7 May 2015 **SCIENCE** **Attn: 1h 15min**

SECTION A (18 x 2 marks)

For each question from 1 to 18, four options are given.

One of them is the correct answer. Make your choice (1, 2, 3 or 4).

Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS) provided.

1. Which one of the following is not a characteristic of living things?

(1) Living things grow.
(2) Living things reproduce.
(3) Living things have body coverings.
(4) Living things need air, food and water to stay alive.

2. Which one of the following shows that living things respond to changes around them?

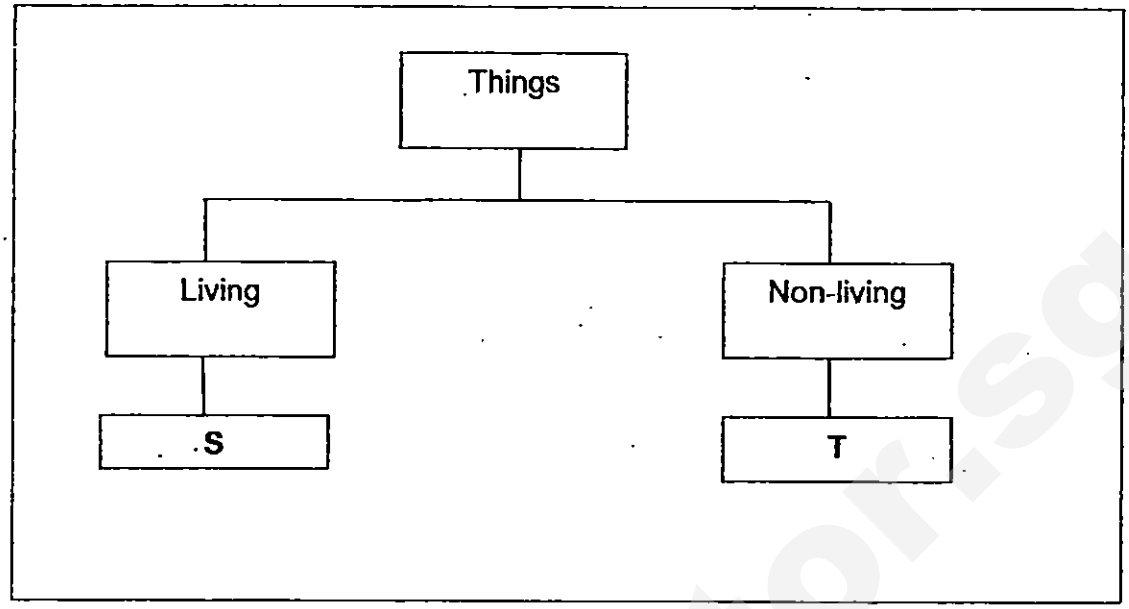
(1) The fire alarm sounded when there was a fire.
(2) The female cat gave birth to three kittens this morning.
(3) Min Min cried loudly when she was pricked by a needle.
(4) The tomato plant has grown taller over the last two days.

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3. In the diagram below, Tommy classified some things into 2 groups namely S and T.



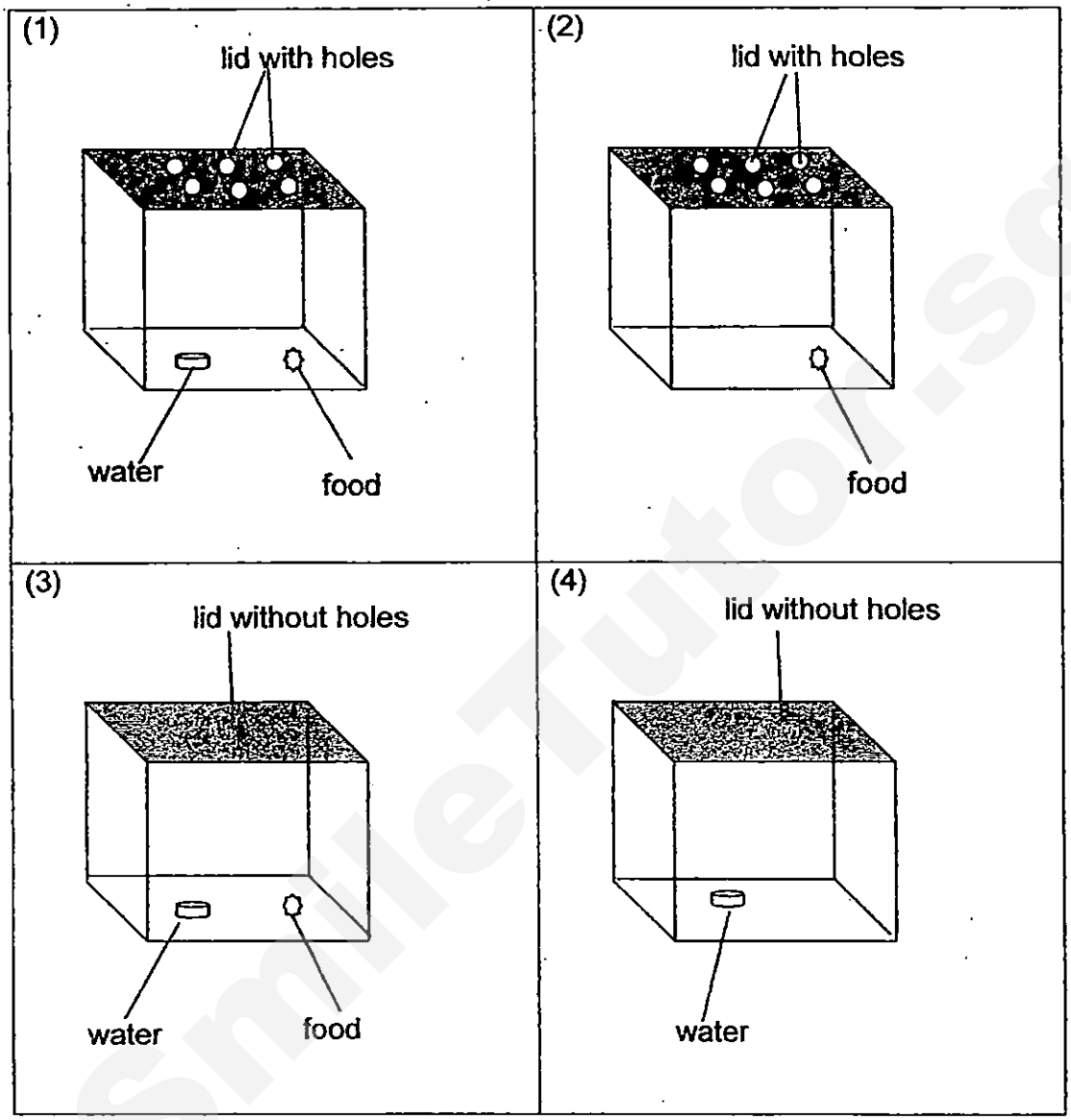
Which one of the following sets did Tommy classify correctly?

	Group S	Group T
(1)	ant	ball
(2)	paper	cow
(3)	horse	snake
(4)	lizard	baby

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4. Which one of the following containers should John choose to keep his hamster so that it can live for the longest period of time?



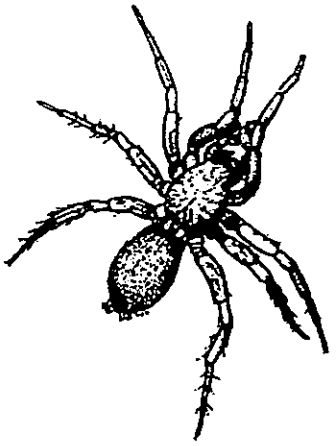
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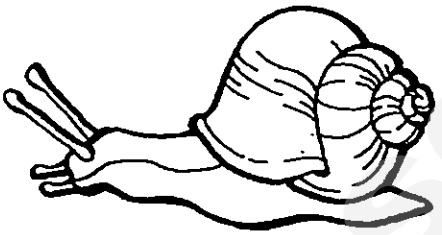
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5. Which one of the following animals is an insect?

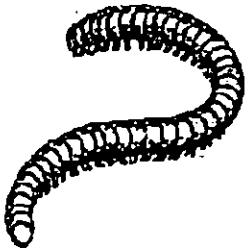
(1)



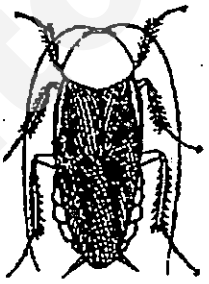
(2)



(3)



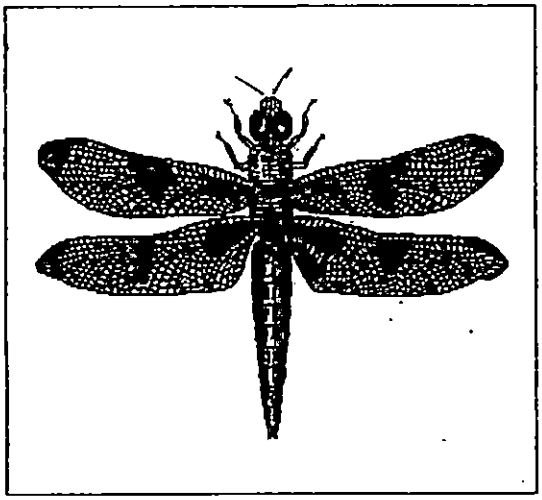
(4)



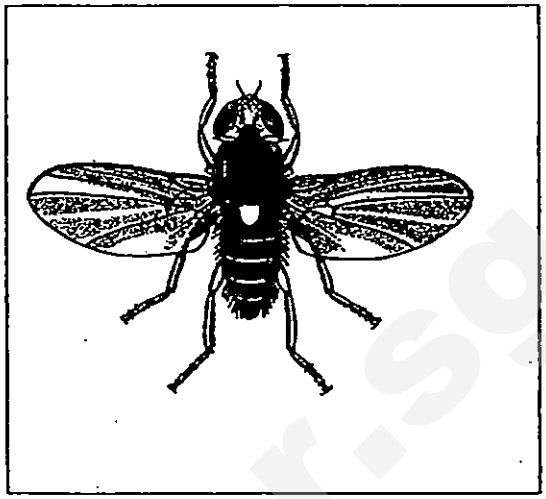
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6. Study Animals P and Q as shown in the diagrams below.



P



Q

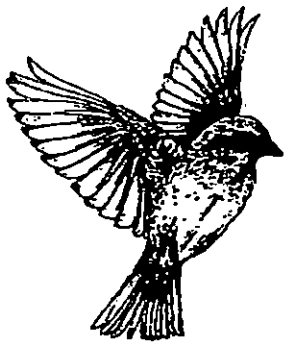
Which one of the following statements about Animals P and Q is not correct?

(1) Both have 3 body parts.
(2) Both have 3 pairs of legs.
(3) Both have 2 pairs of wings.
(4) Both have 1 pair of feelers.

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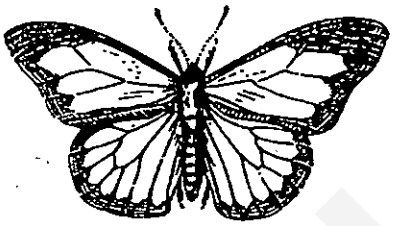
7. The diagrams below show some animals.



A



B



C



D

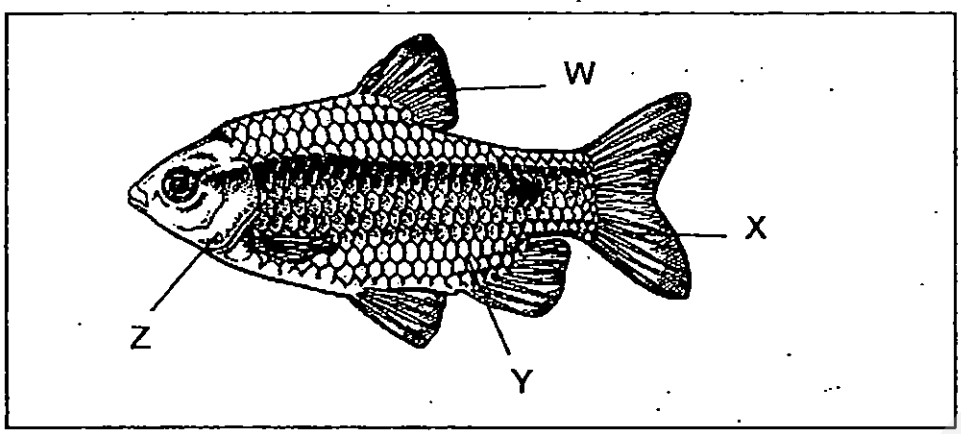
Animals A, B and C are grouped together based on a common characteristic.
Animal D does not belong to the group because it _____.

(1) has hair
(2) has a tail
(3) does not have wings
(4) does not have feelers

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8. The diagram below shows a fish with its labelled parts.



Which of the following part(s) of the fish help(s) it to swim?

(1) Z only
(2) W and X only
(3) W and Y only
(4) X and Z only

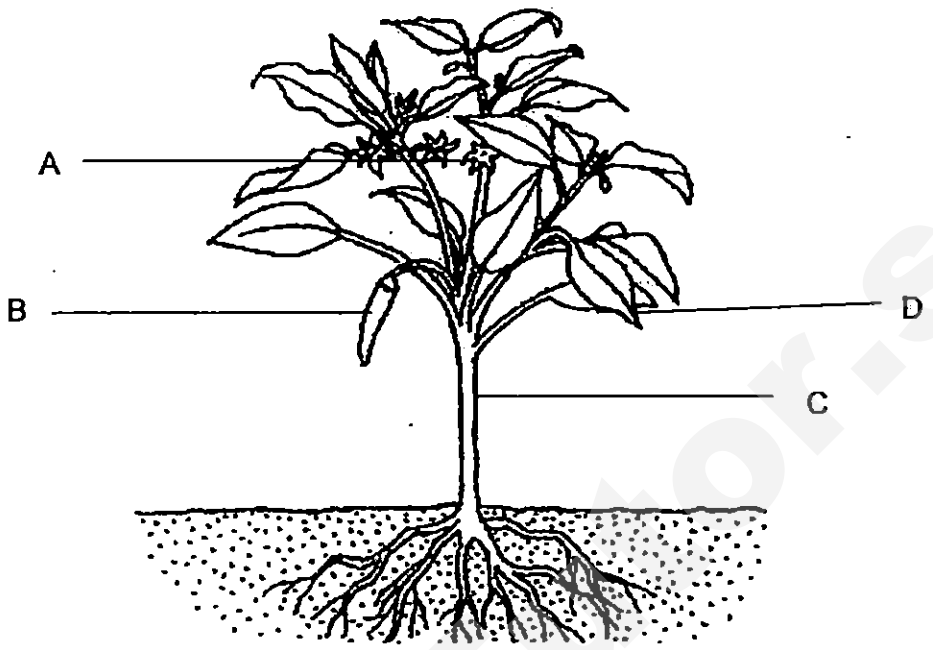
9. Which one of the following statements about plants is true?

(1) Fungi are non-flowering plant.
(2) Non-flowering plants reproduced from seeds.
(3) Flowering plants produce flowers when they become adult plants.
(4) Plants cannot move from place to place so they do not respond to changes.

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10. The diagram below shows a plant with its labelled parts.



Based on the diagram above, which of the following part(s) of the plant help(s) to conclude that it is a flowering plant?

(1) A only
(2) D only
(3) A and B only
(4) B and C only

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11. Which of the following statement(s) describe(s) the similarities between plants and fungi?

A Both reproduce by seeds.

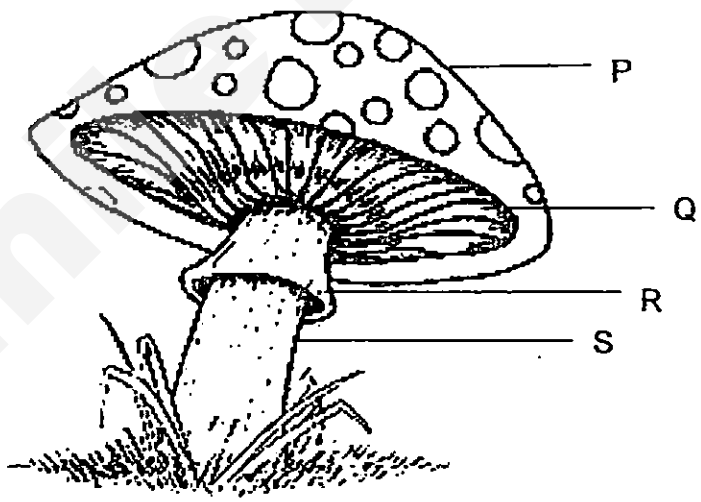
B Both make their own food.

C Both have a stem, roots and leaves

D Both respond to changes around them.

(1) C only
(2) D only
(3) B and C only
(4) C and D only

12. The diagram below shows a fungus.
Where are the spores of the fungus stored?



Where are the spores of the fungus stored?

(1) P
(2) Q
(3) R
(4) S

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13. Four children made the following statements.

Ali : All fungi are harmful.

Bob : Fungi feed on things which are dead or alive.

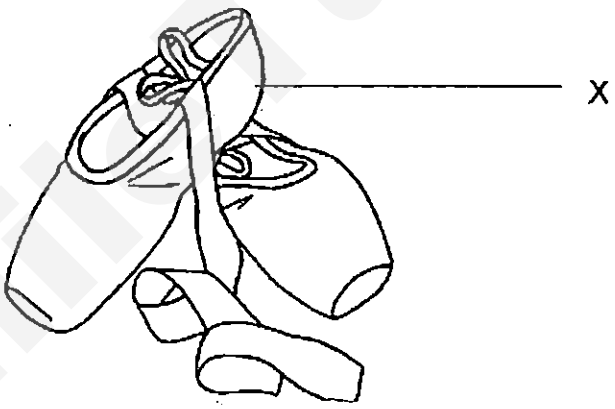
Cai Li : Some fungi can only be seen under a microscope.

Dolly : Fungi have spores which are very light.

Which of the children made the correct statement(s) about fungi?

(1) Ali only
(2) Cai Li and Dolly only
(3) Ali, Bob and Cai Li only
(4) Bob, Cai Li and Dolly only

14. The diagram shows pair of ballet shoes.



Which of the following is/are the properties of material X taken into consideration when it is used to make the ballet shoes?

A flexible

B can float on water

C can allow all light to pass through

(1) A only
(2) B only
(3) A and B only
(4) A and C only

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15. Peter conducted an experiment by bending objects A and B as shown below.

Before the experiment:



A B

After the experiment:

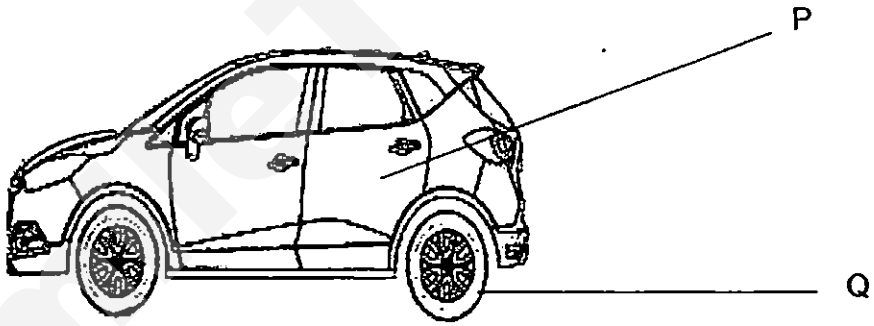


A B

Which one of the following statement about objects A and B is true?

(1) A is stronger than B
(2) B is stronger than A
(3) A is more flexible than B
(4) B is more flexible than A

16. The diagram below shows Mr. Tan's car which he drives to work daily.



Which one of the following sets of materials is most suitable to make parts P and Q of the car?

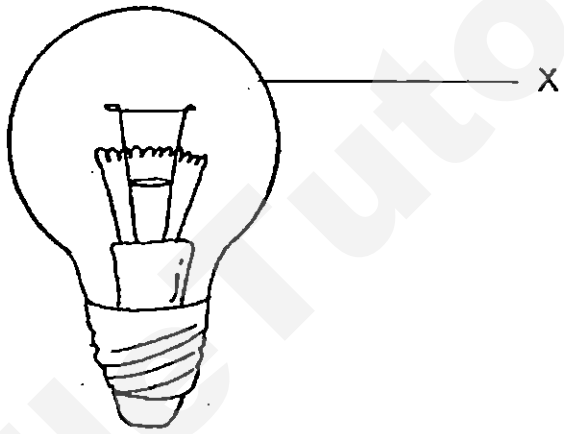
	P	Q
(1)	plastic	wood
(2)	wood	plastic
(3)	metal	rubber
(4)	rubber	metal

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17. The table below shows the properties of each material: A, B, C and D.

Material	Properties
A	sink in water and transparent
B	float on water and not transparent
C	not flexible and not transparent
D	not flexible but transparent

Which one of the materials, A, B, C or D is used to make part X labelled in the diagram below?

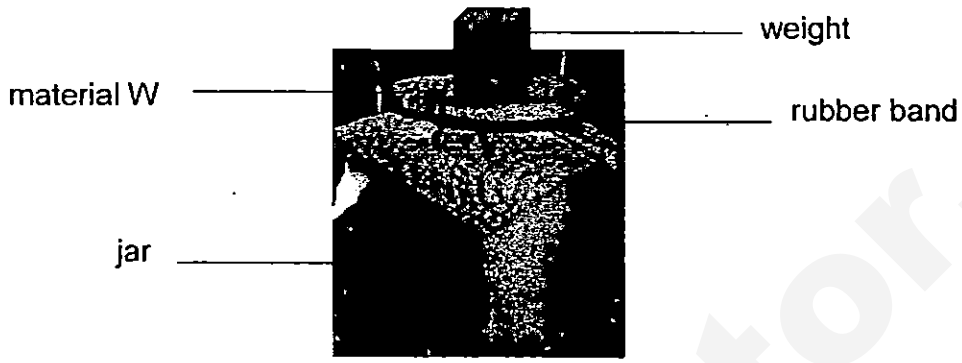


(1) A and B only
(2) A and D only
(3) B and D only
(4) C and D only

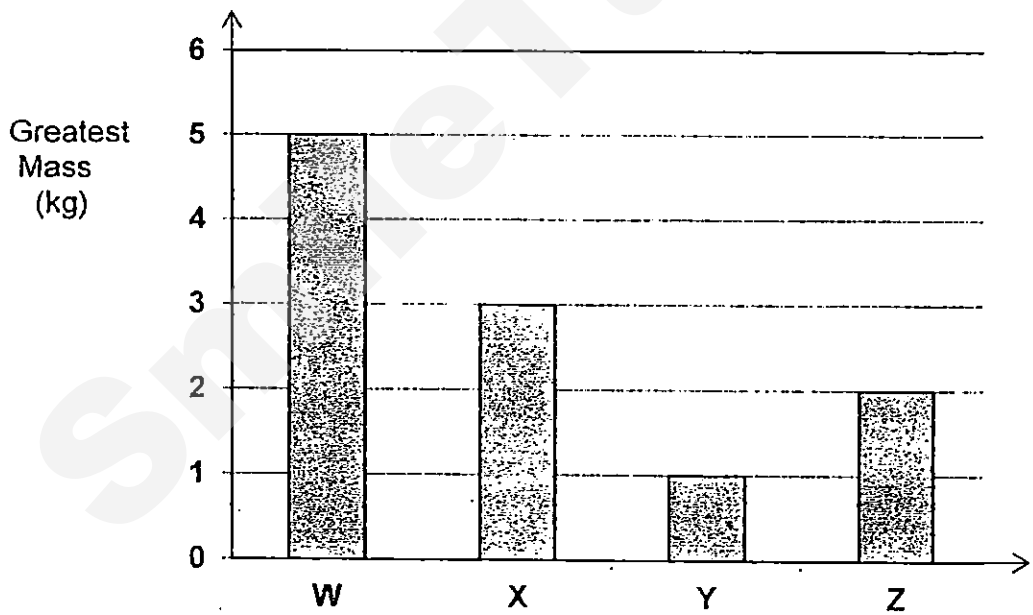
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18. Adam wanted to find out which type of material, W, X, Y, Z, is the strongest. He cut each type of material into sheets of the same size.

He covered the brim of a jar using a sheet of material W and secured it with a rubber band. He added weights on the sheet of material W until it started to tear. He recorded the greatest mass that it could hold just before it tore. He repeated the experiment as shown in the diagram below using material X, Y and Z.



The graph below shows the greatest mass of each material it could hold just before it tore.



Which one of the following statements is true?

(1) W is the weakest
(2) W is stronger than X
(3) Y is the strongest
(4) Y is the stronger than Z

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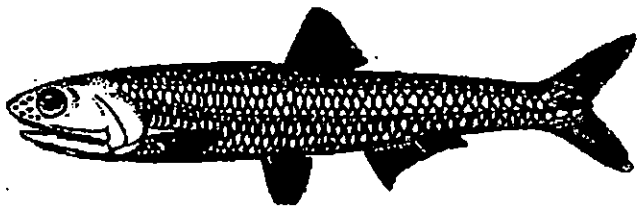
Name; _____ ( ) Class : P3 ( )

24

SECTION B (24 marks)

For questions 19 to 30, write your answers clearly in the spaces provided.
The number of marks available is shown in brackets [ ] at the end of each question or part question.

19. Study Animals P, Q, R and S below carefully.



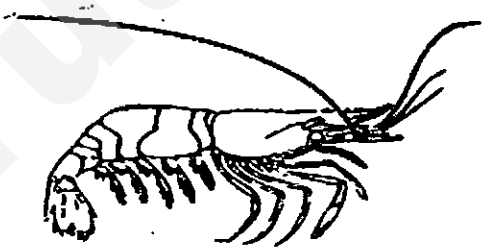
P



Q

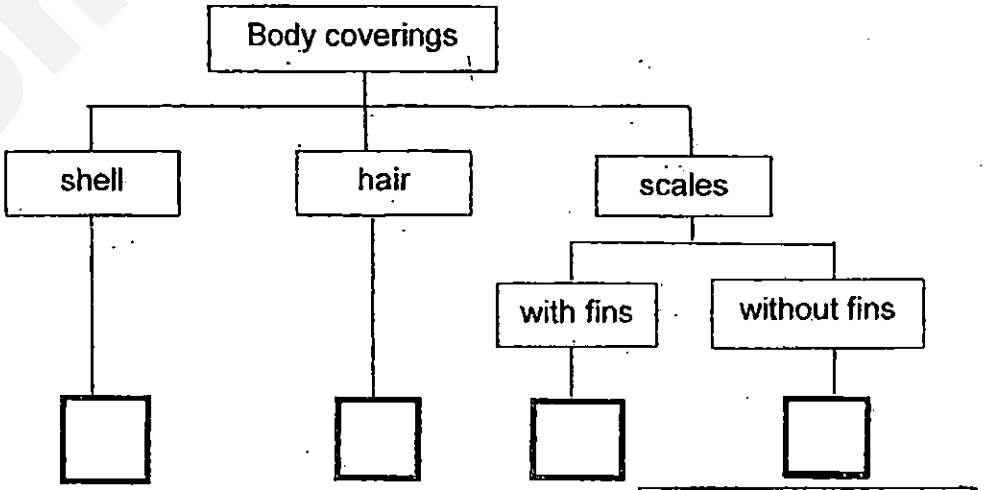


R



S

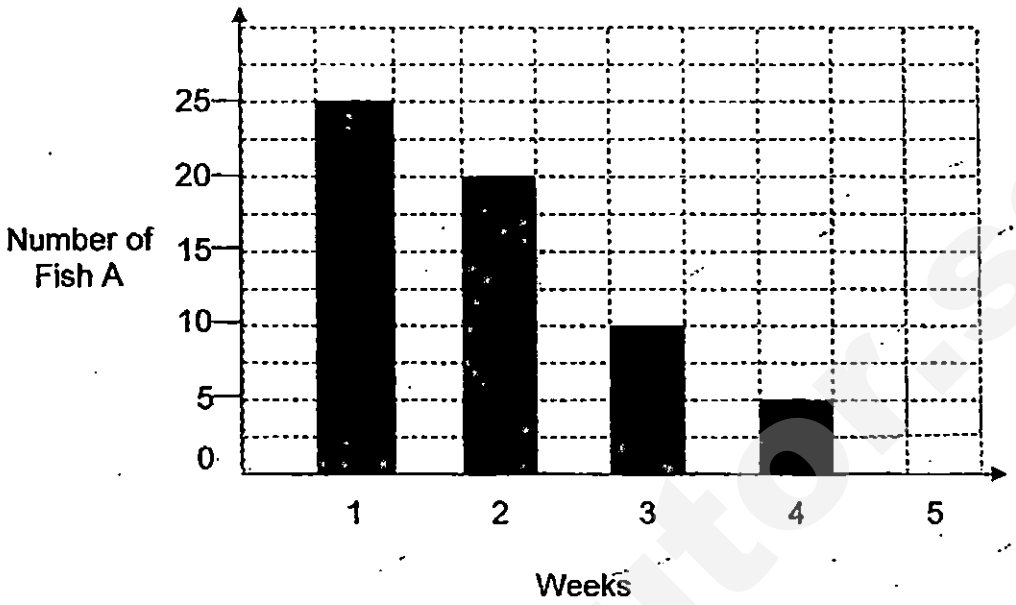
The animals above are classified based on their body coverings.
Write the letters **P, Q, R and S** in the correct boxes below. [2]



Score 2

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20. Bob kept 25 male and female Fish A in his fish tank. No additional Fish A were put in the tank for the next 5 weeks.
Fish A were infected by a disease. The graph below shows the number of Fish A observed over 4 weeks.



(a) Some Fish A were left in Week 5.
In the bar graph above, **draw** a bar to show the likely number of fish left in Week 5. [1]

(b) Bob treated the infected Fish A.
By Week 10, the number of Fish A has increased by twenty.
Give a possible reason for the increase in the number of Fish A. [1]

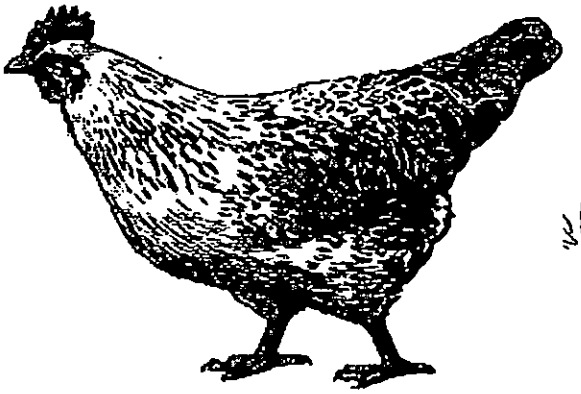
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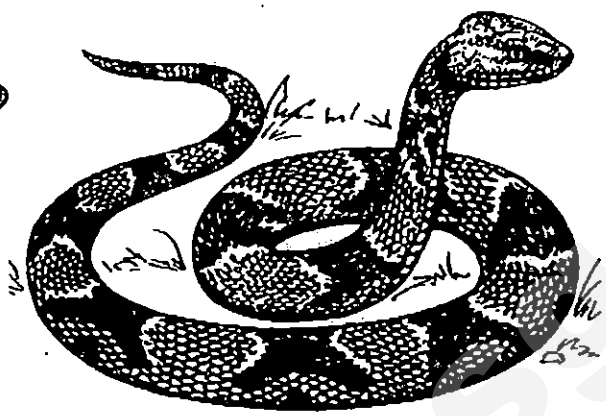
Score	/ 2

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21. Study Animals P and Q as shown in the diagrams below.



Animal P



Animal Q

Based on your observations, state two different observable physical characteristics between Animal P and Animal Q. [2]

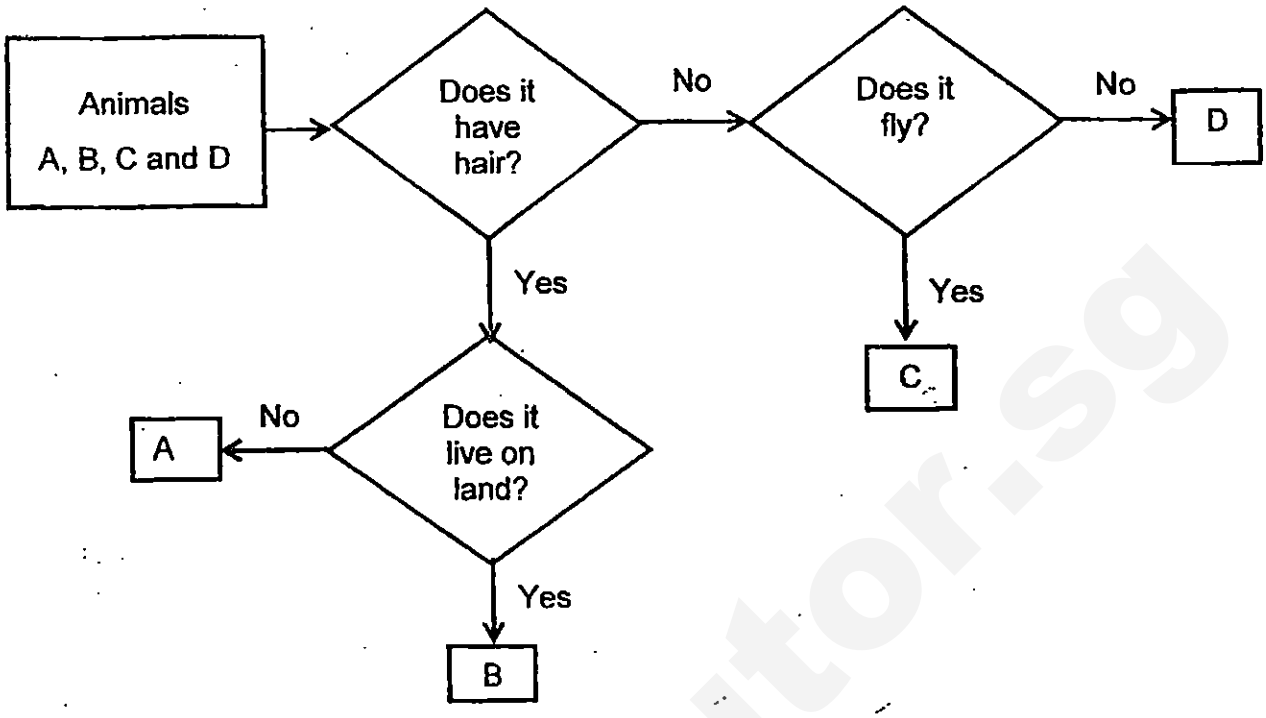
(Do not compare sizes, colours, body shapes and patterns)

Difference 1	_____ _____ _____
Difference 2	_____ _____ _____

Score	/2

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22. Study the classification chart below carefully.



Based on the information above, answer the following questions:

(a) Name two characteristics of Animal C. [2]

Characteristic 1	_____ _____
Characteristic 2	_____ _____

(b) Which 2 animals, A, B, C and/or D are mammals? Give a reason for your answer. [1]

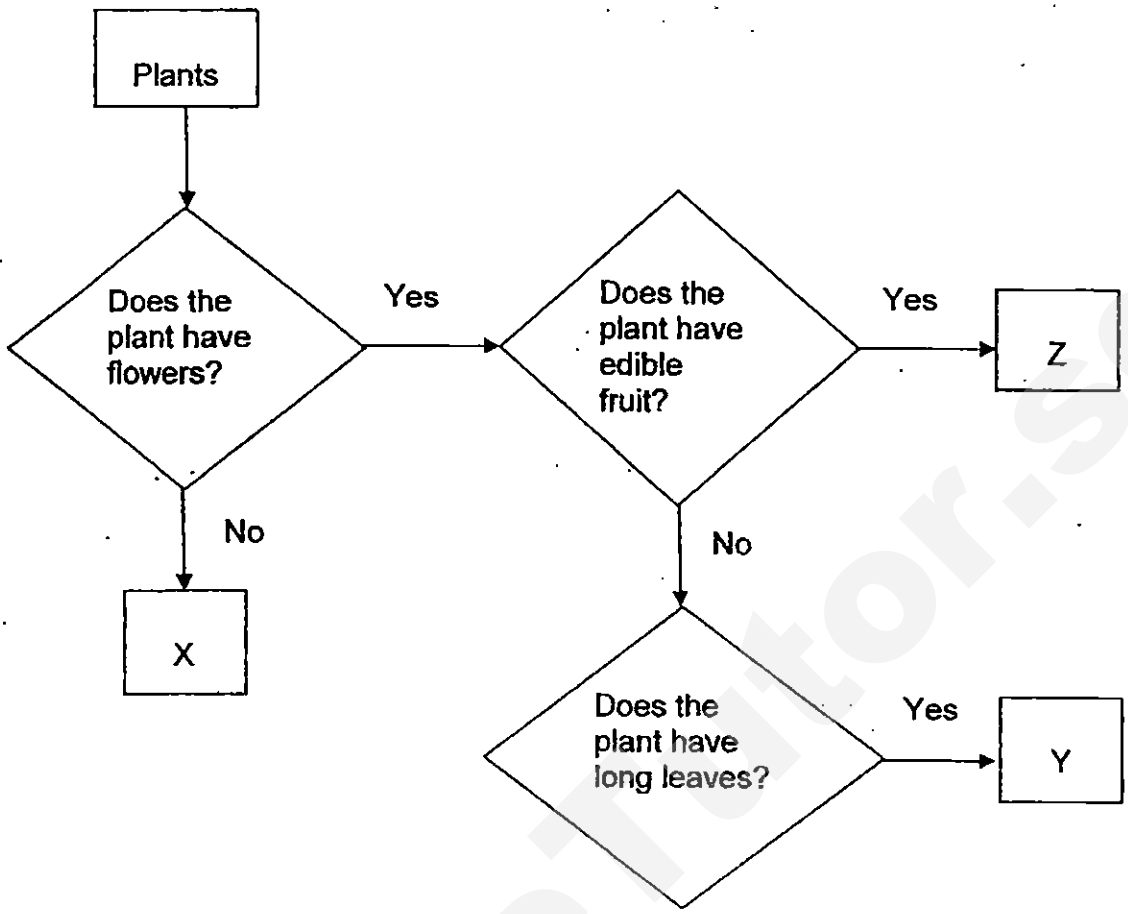
_____

_____

Score	/3

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23. Study the flow chart below carefully.



Based on the information provided above, write down 2 characteristics of plant Z. [2]

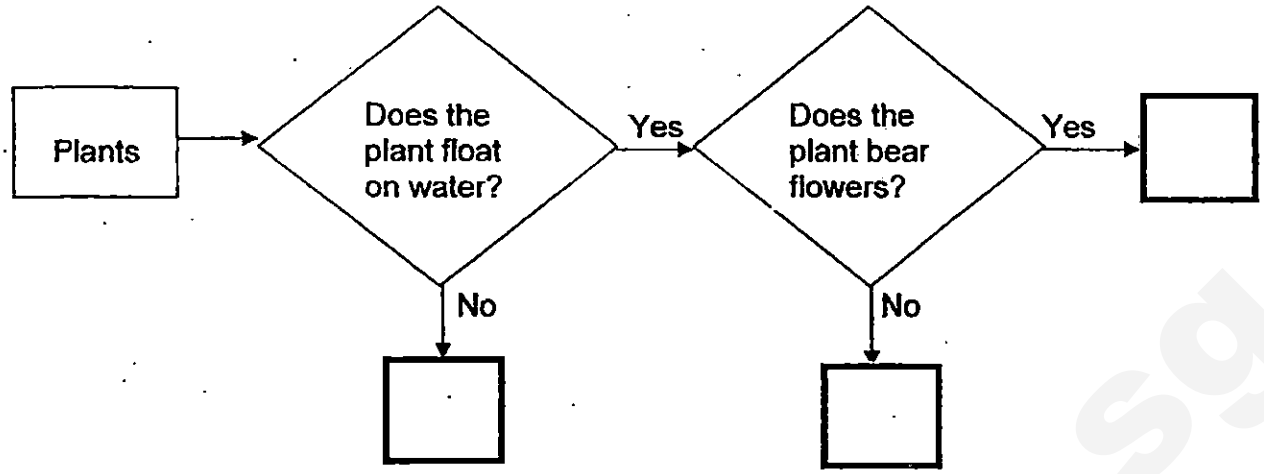
Characteristic 1 : _____

Characteristic 2 : _____

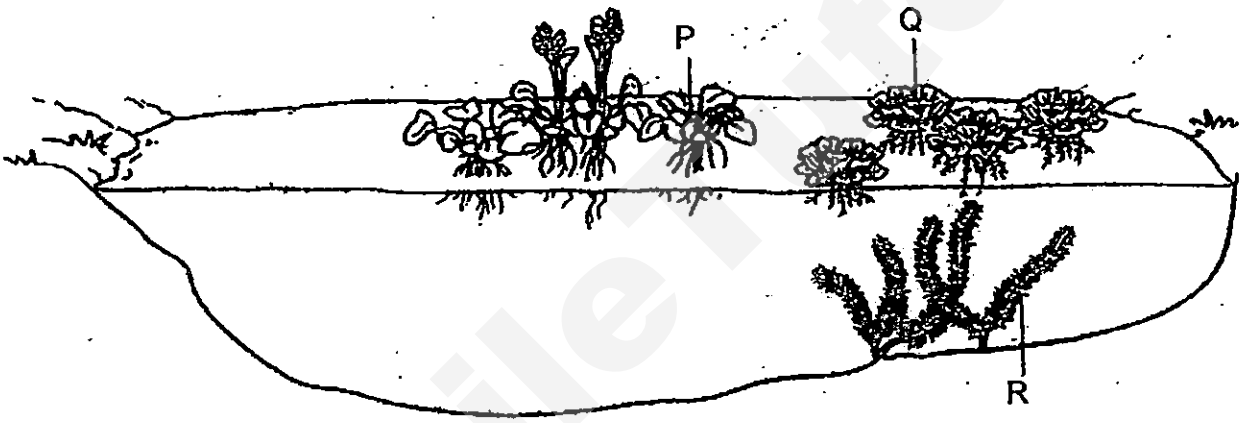
Score	/ 2

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24 Study the flow chart below.



The diagram below shows plant P, Q and R found in a pond.



Based on the information in the diagram above, **write the letter P, Q and R in the correct box in the flow chart.** [2]

Score	2

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25. The diagram below shows Plant W growing upwards on the trunks of trees.



(a) Explain why the leaves of Plant W grow upwards. [2]

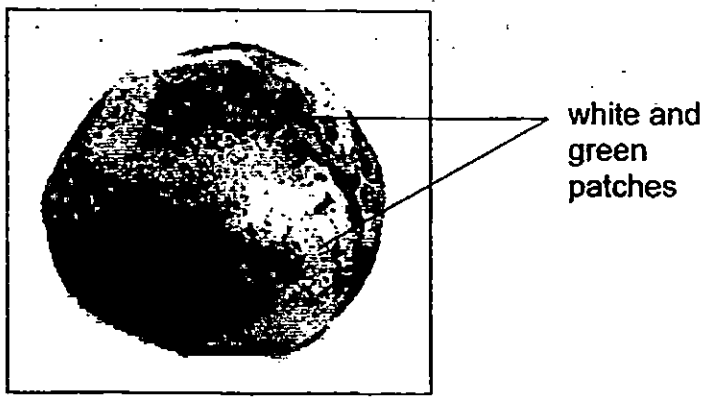
_____

_____

Score	/ 2

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26. The diagram below shows a rotten orange.



(a) White and green patches are found to be micro-organisms which feed on rotten fruit. [1]

Name the micro-organisms.

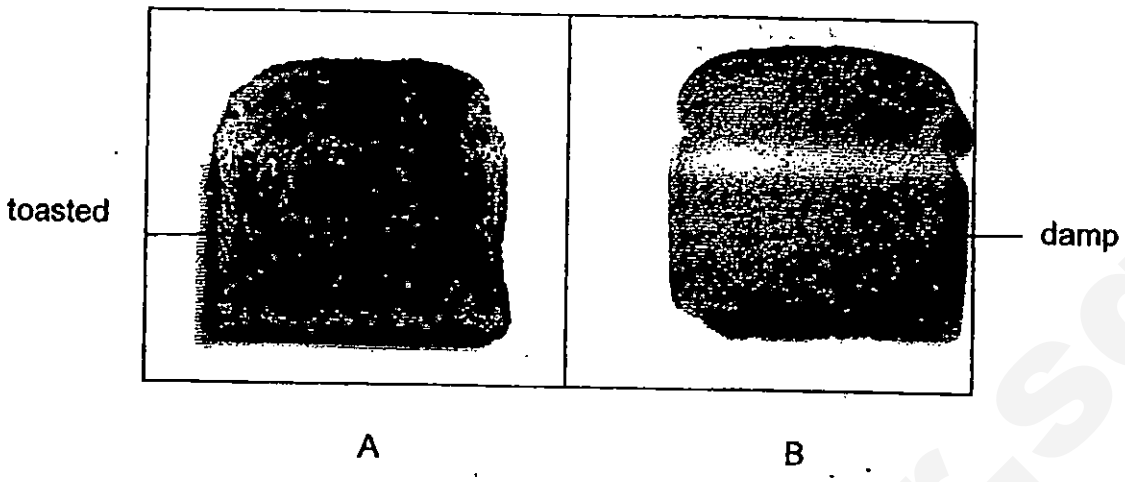
_____

Score	/ 1

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27. Mina left the two pieces of bread, A and B in a warm, dark cabinet for 5 days.

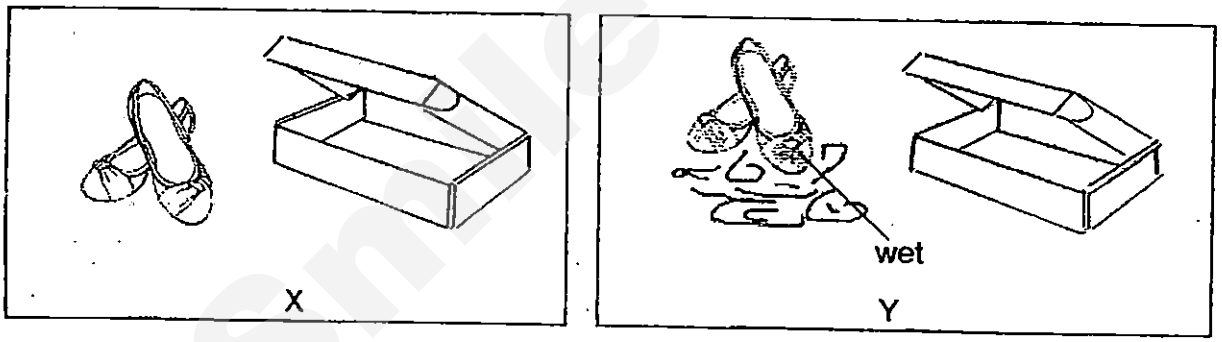


After 5 days, Mina observed that some bread moulds were formed on Bread B.

(a) Based on the information above, name the condition necessary for the bread mould to grow on the bread. [1]

Presence of _____

(b) Mina had two similar pairs of leather shoes, X and Y as shown below.



Mina kept the two pairs of leather shoes in two separate shoe boxes and left them in the shoe cabinet. After one week, Mina found some mould growing on one of the pairs of the leather shoes.

Which pair of leather shoes, X or Y would mould be seen growing? Give a reason for your answer.

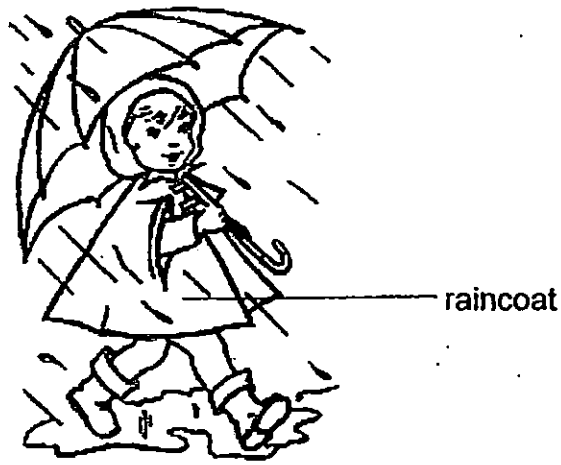
_____

_____

Score	/ 2

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28. The diagram below shows a raincoat.



(a) Name one suitable material used to make a raincoat [1]

_____

(b) State the property of the material in your answer in (a) which will prevent the girl from being drenched in the rain. [1]

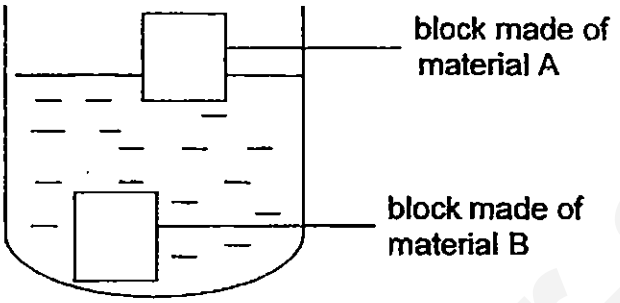
_____

Score	/ 2

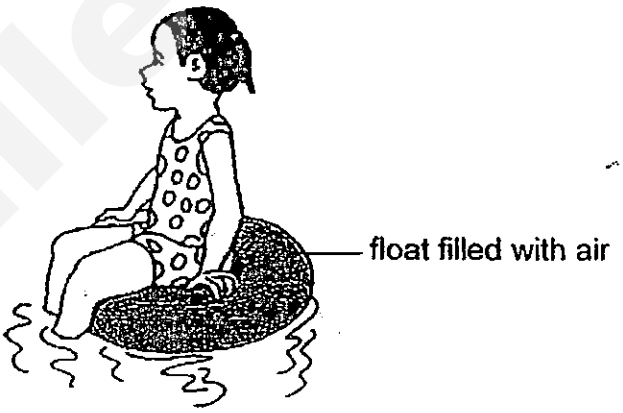
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29. Two identical blocks, each made of a different material, A and B, are placed in a beaker of water as shown in the diagram below.



(a) Based on the diagram above, which material, A or B, is used to make the float as shown below? Explain your answer. [1]

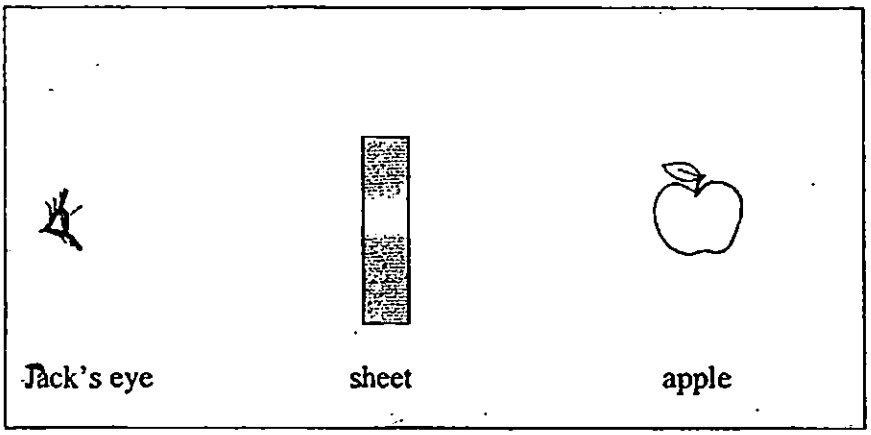


(b) Suggest a suitable material to make the float. [1]

Score	/ 2

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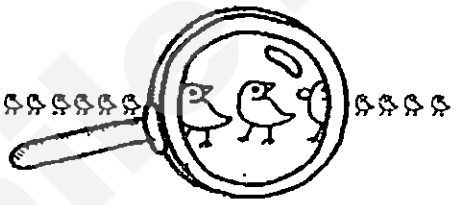
30. Jack placed a sheet made of a different material, X, Y and Z, between his eyes and an apple, one at a time, as shown in the diagram below.



He recorded his observations in a table below.

Material of sheet	Observation
X	Could see the apple most clearly
Y	Could not see the apple clearly
Z	Could not see the apple at all

(a) Which one of the materials, X, Y or Z, is most suitable for making magnifying lens shown below? Explain your answer. [1]



_____

_____

(b) Which one of the materials, X, Y or Z, is most suitable for making curtain that blocks out all the light? Explain your answer. [1]

_____

_____

End of Paper

Score 2

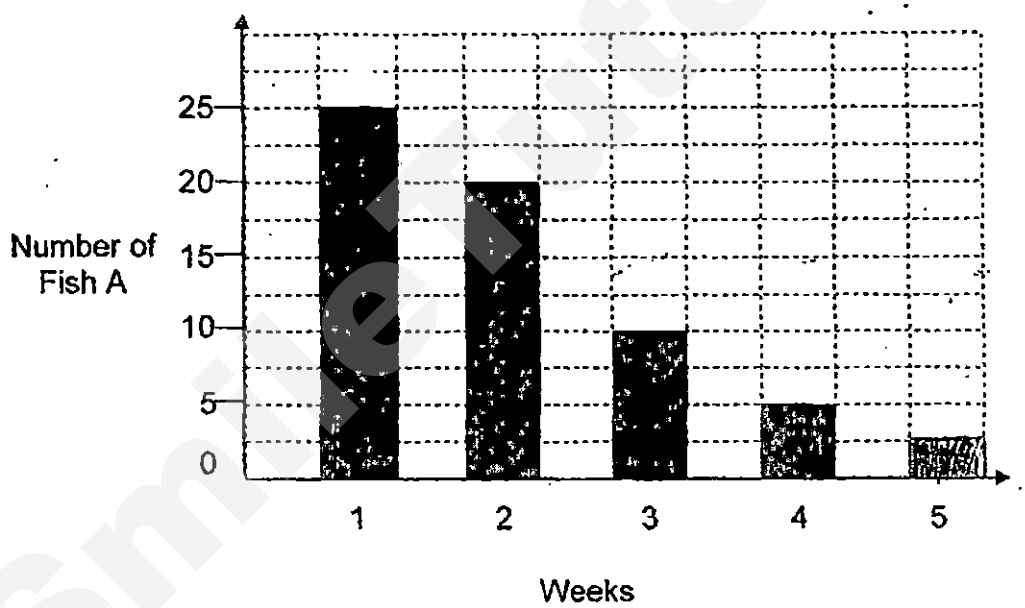
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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : RAFFLES GIRLS PRIMARY SCHOOL
SUBJECT : SCIENCE
TERM : SA1

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
3	**3**	**1**	**1**	**4**	**3**	**3**	**2**	**3**	**3**
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18		
2	**2**	**2**	**1**	**3**	**3**	**3**	**2**		

Q19. Shell – S / Hair – Q / with fins – P / without fins - R

Q20a. **SEE PICTURE** Q20b. Fish A reproduced so that the number of fish A increased.



Q21. Difference 1 – Animal P has a beak but Q does not.

Q21. Difference 2 – Animal Q has scales but animal P has feathers.

Q22a. Characteristic 1 – does not have hair.

Q22a. Characteristic 2 – It can fly

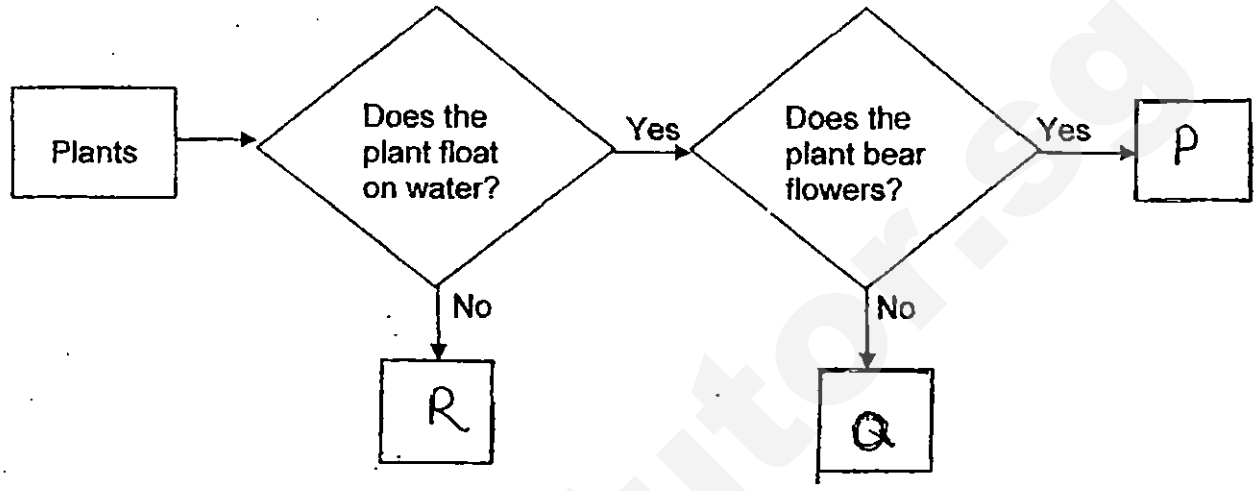
Q22b. A and B. Both have hair.

Q23. Characteristic 1 : It bears flowers.
Q23. Characteristic 2: It has edible fruits.

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Q24. **SEE PICTURE**



Q25. Plant W need a support to grow upwards and sunlight to make food.

Q26. Fungi Q27a. Presence of water Q27b. Y. Water was present.

Q28a. Plastic Q28b. Waterproof.

Q29a. Material A floats on water. Q29b. Plastic

Q30a. X. It allows most light to pass through.

Q30b. Z. It does not allow light to pass through it.

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RED SWASTIKA SCHOOL

SCIENCE
2015 SEMESTRAL EXAMINATION 1
PRIMARY 3

Name : _____( )

Class : Primary 3/ _____

Date : 12 May 2015

BOOKLET A

Total time for Booklets A & B: 1h 30 min

Booklet A: 18 questions (36 marks)

Note:

1. Do not open the booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the booklet.
3. Do not waste time. If the question is too difficult for you, go on to the next question.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this booklet, you should have the following:
   a. Page 1 to Page 9
   b. Questions 1 to 18

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Section A: Multiple Choice Questions

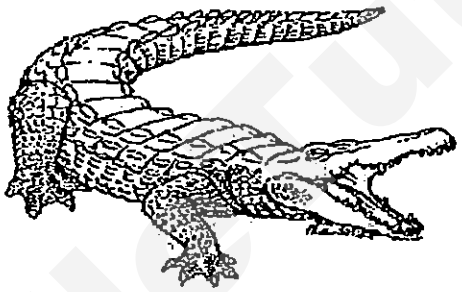
For Questions 1 to 18, choose the most suitable answer and shade its number in the OAS provided.

1 Mr Tan scolded his daughter and her eyes became teary. What characteristic of living things does this show?

Living things can _____.

(1) grow
(2) reproduce
(3) move on their own
(4) respond to changes

2 What outer body covering does this animal have?



(1) fur
(2) shell
(3) scales
(4) feathers

3 Four students made the following statements about mammals.

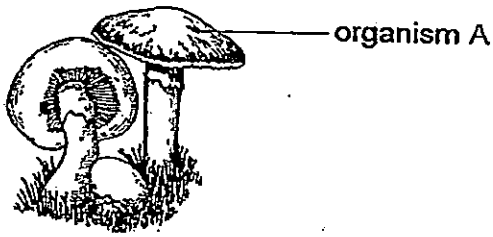
Joan	:	The females produce milk for their young.
Gabriella	:	They live on land only.
Mei Ling	:	They have hair as outer body covering.
Ashley	:	All mammals give birth to their young alive.

Which student(s) has/have made the correct statement(s)?

(1) Ashley only
(2) Mei Ling only
(3) Joan and Mei Ling only
(4) Gabriella, Joan and Ashley only

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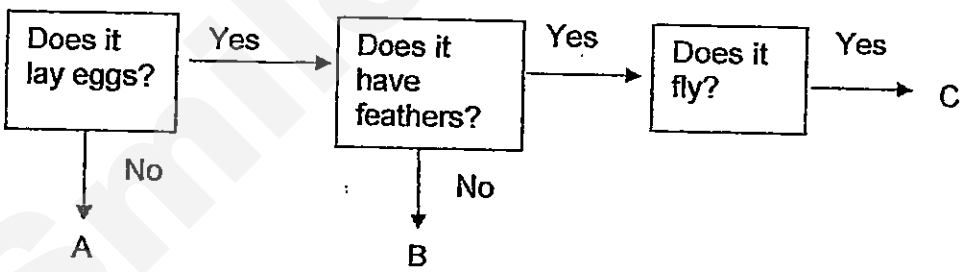
4 Pillay found organism A growing in the school garden.



Which of the following correctly describes the organism?

	Type of organism	Reproduce by
(1)	fungi	spores
(2)	fungi	seeds
(3)	flowering plant	seeds
(4)	non-flowering plant	spores

5 Study the flow chart below.



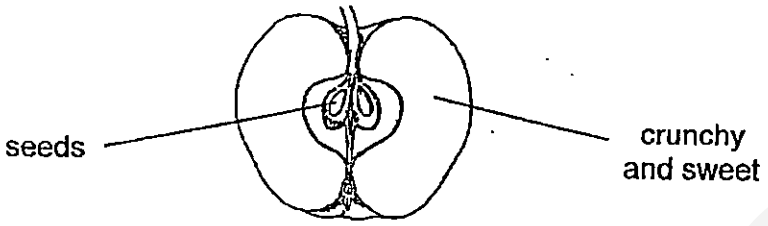
What animals do A, B and C represent?

	A	B	C
(1)	goldfish	parrot	cat
(2)	cat	goldfish	parrot
(3)	cockroach	goldfish	parrot
(4)	cat	parrot	bat

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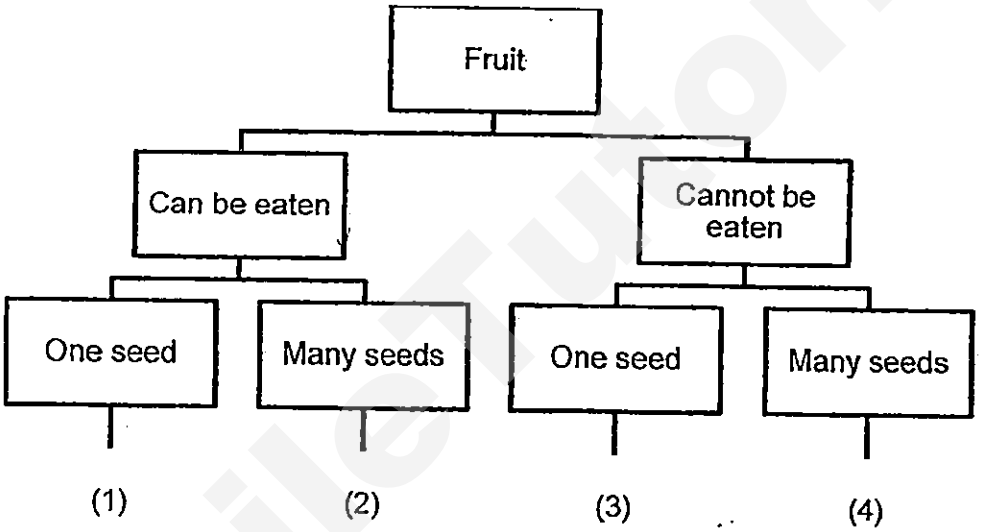
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6 Mary cuts fruit A into half. The diagram shows what can be found inside the fruit.



Fruit A

Where can fruit A be placed in the classification chart below?



7 The table provides some information about a group of objects A, B and C.

Object	Able to reproduce?	Able to make food?	Need water to survive?
A	no	no	no
B	yes	no	yes
C	yes	yes	yes

Based on the table, which of the following is correct?

	Living thing	Non-living thing
(1)	B	A, C
(2)	C	A, B
(3)	A, C	B
(4)	B, C	A

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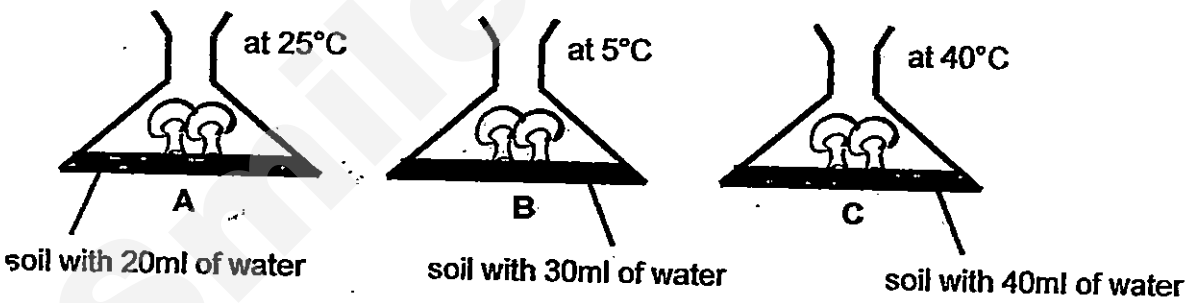
8 Shannon wants to find out the type of food that insect X prefers to eat. She prepares four set-ups using similar containers in her experiment.

Set-up	Number of insect X	Type of food	Amount of food (g)
A	10	candy	30
B	10	candy	50
C	10	bread	30
D	15	bread	50

Which two set-ups must she compare to ensure that it is a fair test?

(1) A and B
(2) A and C
(3) B and C
(4) B and D

9 Frank wanted to find out if the amount of water affected the growth of mushrooms. He created three set-ups, A, B and C as shown below.



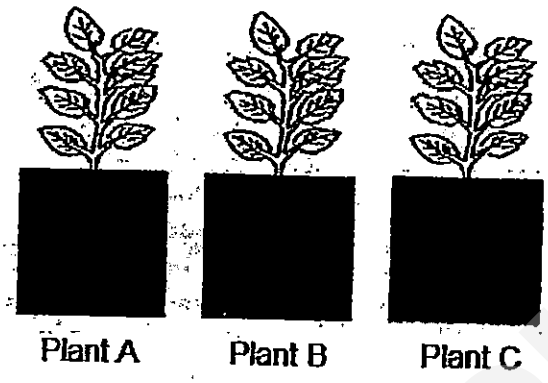
His teacher said that he did not conduct a fair experiment. What can Frank do to conduct a fair experiment?

(1) Add one more mushroom to set-up B.
(2) Reduce the amount of water from set-up A.
(3) Use the same temperature for all the set-ups.
(4) Change the container for set-up C.

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10 Mrs Lee added different amounts of water daily to three plants. The plants had the same height and size at the start of the experiment. The plants were placed in the same location at the garden.



After two weeks, the height of the plants were measured and recorded in the table below.

Plant	Amount of water added daily	Height of plant at the end of 2 weeks
A	200 ml	25 cm
B	300 ml	35 cm
C	400 ml	48 cm

Which of the following is correct?

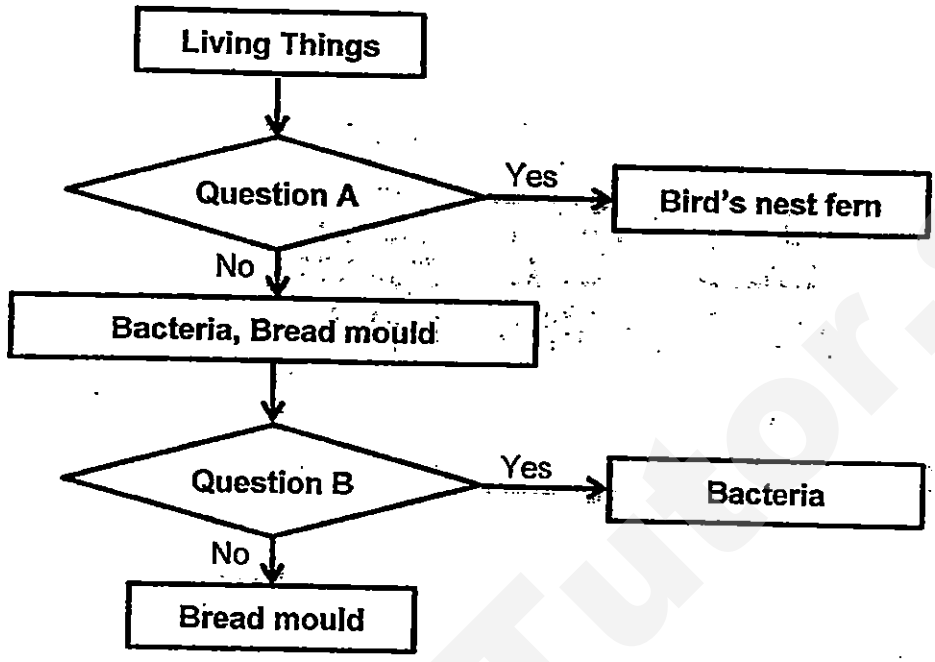
(1) Plant A grew the least as it has the most water. ✗
(2) Plant C grew the tallest as it had the most water. ✓
(3) Plant B grew more than plant A as plant B had less water.
(4) Plant C grew more than plant B as plant C had less water.

11 Hayley knows that there is only a little sugar left in a container just by looking at the container. Which one of the following materials is the container likely to be made of?

(1) wood
(2) metal
(3) ceramic
(4) clear glass

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12 Study the flow chart below. Three living things have been classified based on their characteristics.



Based on the flow chart, what can question A and question B be?

	Question A	Question B
(1)	Are they fungi?	Do they make us fall sick?
(2)	Are they fungi?	Do they reproduce by spores?
(3)	Are they non-flowering plants?	Do they need a microscope to be seen?
(4)	Are they flowering plants?	Do they need a microscope to be seen?

13 The following is a description of material B.

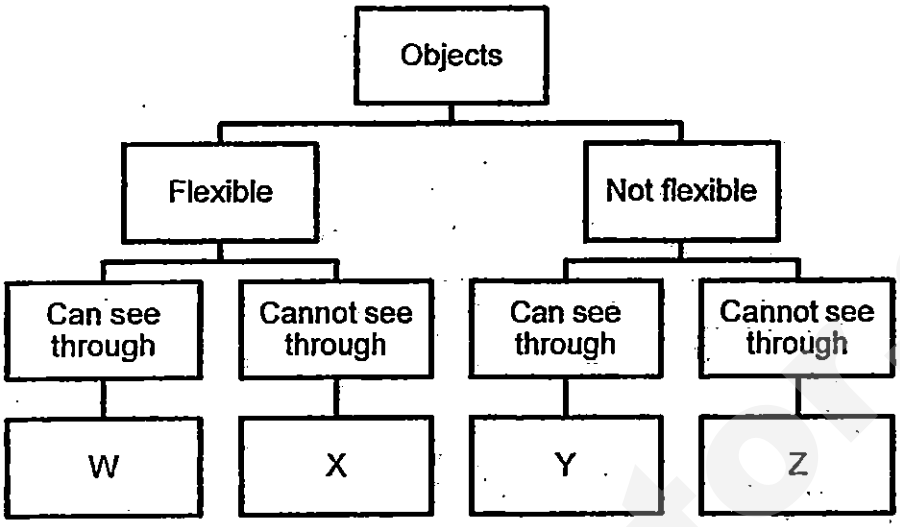
- bends easily without breaking
- can come from animals or plants
- usually used to make objects such as clothes

Which of the following is most likely to be material B?

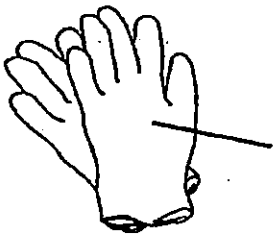
(1) fabric
(2) metal
(3) rubber
(4) ceramic

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14 Study the classification table below carefully.



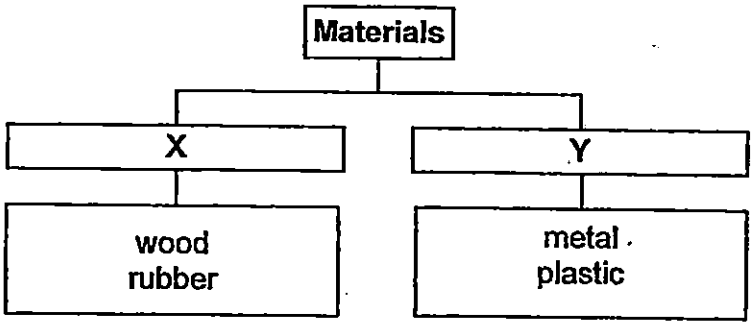
In which group would the spectacle lens and the rubber gloves be placed?

	 spectacle lens	 rubber gloves
(1)	W	X
(2)	Y	Z
(3)	W	Z
(4)	Y	X

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15 Study the classification table below.



Which of the following are the correct headings for X and Y?

	X	Y
(1)	from animals	from the ground
(2)	from plants	from animals
(3)	from plants	from the ground
(4)	from the ground	from plants

16 Jeremy wanted to find out if four materials float or sink in water. He conducted an experiment and recorded the results in the table shown.

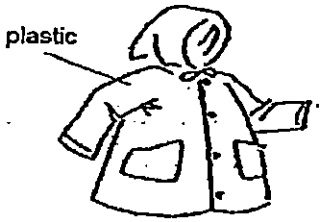
Material	Metal	Non-metal	Floats in water
S	√		√
T		√	
U	√		
V		√	√

Which material was most likely wood?

(1) S
(2) T
(3) U
(4) V

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17 Raincoats are usually made from plastic. What is the most important physical property for the material used to make a raincoat?



It must _____.

(1) be breakable
(2) float on water
(3) be waterproof
(4) allow light to pass through it

18 Winnie was given four different types of paper bags. She put similar oranges, one at a time, into each bag until it began to tear. She recorded her observation in a table as shown below.

Type of paper bags	Number of oranges put in the bag before it began to tear
P	9
Q	11
R	7
S	13

Based on the results from the table above, which one of the following statements is correct?

(1) Material P is stronger than Material Q.
(2) Material Q is less flexible than Material P.
(3) Material R is more flexible than Material S.
(4) Material S is stronger than Material R.

End of Section A
Please check your answers.

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RED SWASTIKA SCHOOL

SCIENCE
2015 SEMESTRAL EXAMINATION 1
PRIMARY 3

Name : _____ ( )

Class : Primary 3/ _____

Date : 12 May 2015

BOOKLET B

8 Questions
24 Marks

In this booklet, you should have the following:
a. **Page 10 to Page 17**
b. **Questions 19 to 26**

MARKS

	OBTAINED	POSSIBLE
BOOKLET A		36
BOOKLET B		24
TOTAL		60

Parent's Signature : _____

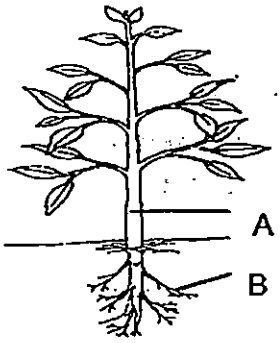
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Section B: Open-ended Questions

Answer all questions in the space provided.

19 Study the diagram below.

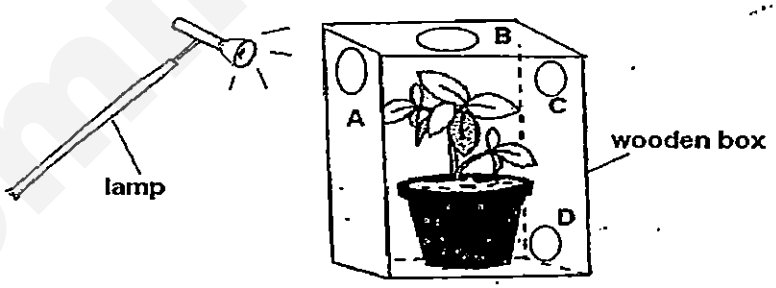


a) Label the parts of the plant marked A and B. (1m)

Part A: _____

Part B: _____

A plant was placed in a wooden box with 4 holes A, B, C and D. The lamp was switched on throughout the experiment. The lamp was the only source of light in the room.



b) After some time, the plant was observed to grow towards a particular hole. Which hole was that? (1m)

_____

c) For the answer in part (b), which characteristic of living things does it show? (1m)

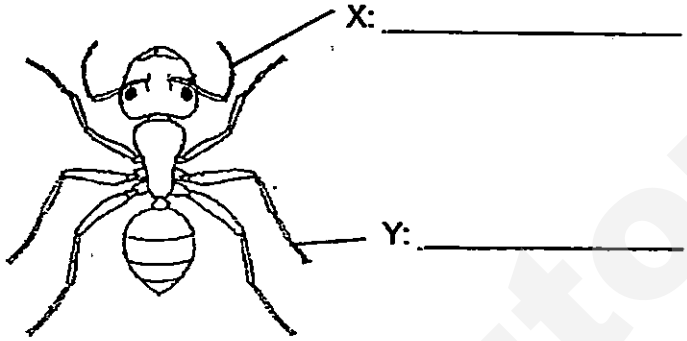
_____

3

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20 Aminah was given a picture of the animal shown.

a) Identify part X and part Y of the animal. Write the answer in the blanks provided. (1m)



Study the two animals shown below.



insect



bird

b) What is the similarity in function for part P and part Q for the two animals? (1m)

_____

c) How are the two animals similar in terms of the way they reproduce? (1m)

_____

d) Identify part Q. (1m)

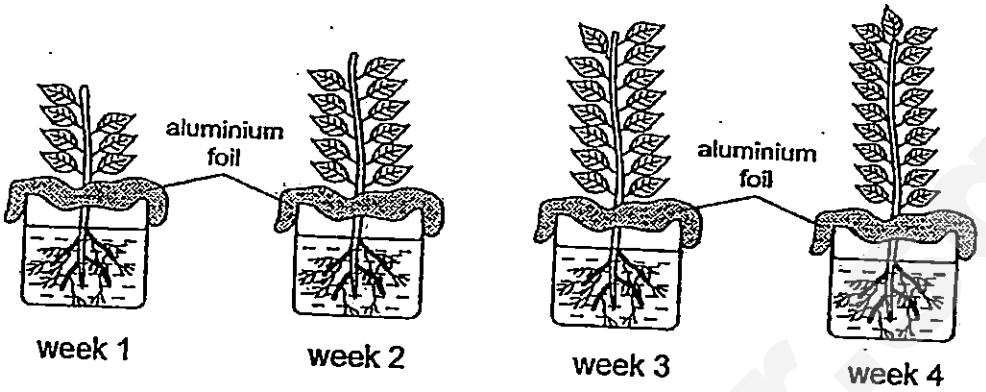
_____

4

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21 Jackie carried out an experiment on a plant for four weeks as shown below.



She placed the plant near the window. She made a marking on the container to show the water level at the start of the experiment.

At the end of each week, she re-filled the container so that the water level reaches the marking she had made. She recorded the amount of water she had to re-fill each week in the table below.

	At the end of			
	Week 1	**Week 2**	**Week 3**	**Week 4**
Amount of water added (ml)	170	?	195	220

a) Based on the diagram, state one difference between the plant at week 1 and the plant at week 3. (1m)

_____

_____

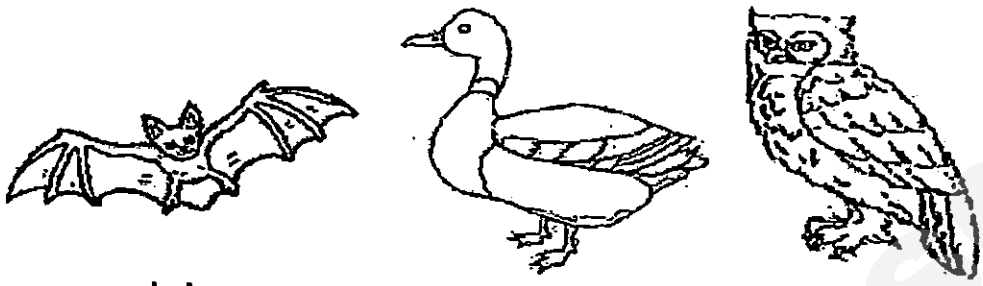
b) Predict the amount of water added at the end of the week 2. (1m)

_____

2

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22 Devi observed a group of animals as shown below.



bat duck owl

a) Which animal is not classified in the same group of living things as the other two animals? (1m)

_____

Study the table below and answer the questions that follow.

Characteristic	Animal A	Animal B	Animal C
Can swim	✓	✓	✗
Has four legs	✗	✓	✓
Feeds on plants	✓	✓	✓

b) What is the similarity between animals A and C? (1m)

_____

_____

c) A duck feeds on plants. Can animal B be a duck? Why? (1m)

_____

_____

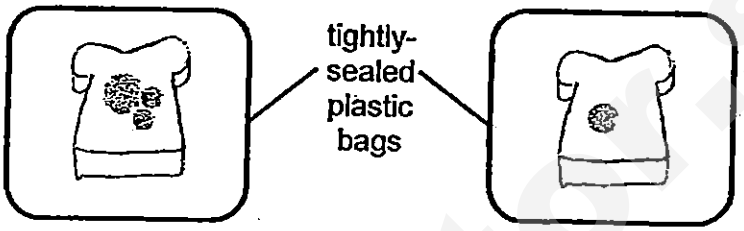
3

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23 Raymond conducted an experiment with two pieces of bread taken from the same loaf of bread. One of the pieces of bread was toasted. Some water was added to the other piece of bread.

The toasted bread was cooled down before it was kept in the plastic bag. Both plastic bags were kept in the kitchen cupboard.

After two weeks, he found more mould growing on one piece of bread than the other.



Bread L Bread M

a) Based on the information above, which piece of bread, L or M, was most likely toasted? (1m)

_____

b) Name one condition necessary for bread mould to grow. (1m)

_____

c) Raymond did another experiment with a new piece of bread. The bread was kept in the freezer for 10 days.

After 10 days, Raymond observed that no mould grew on the bread. Why was this so? (1m)

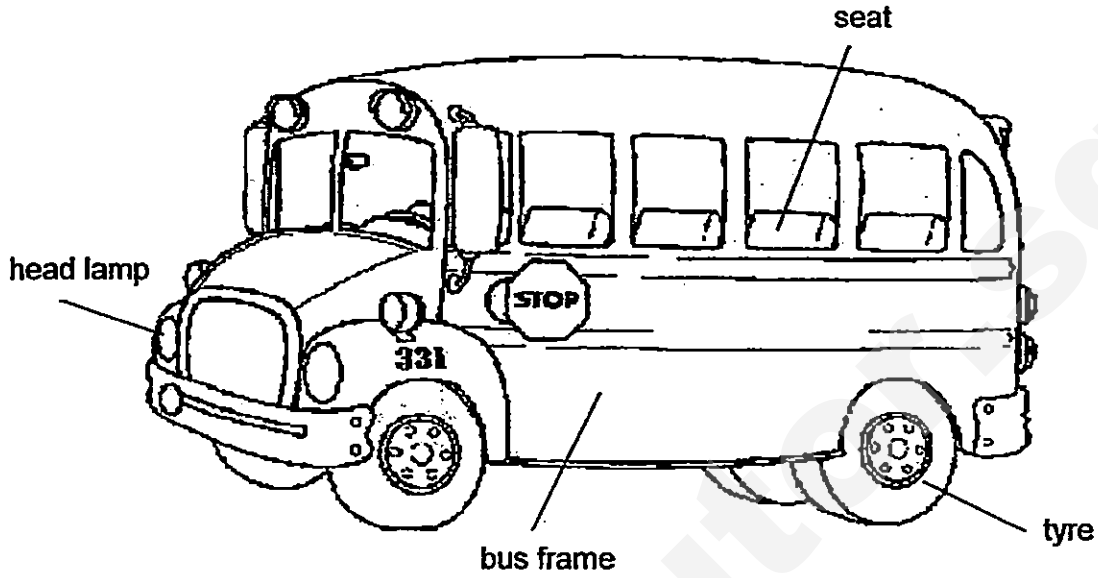
_____

_____

3

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24 The diagram shows a bus.



a) For each of the parts of the bus listed in the table below,

(i) Identify a suitable material that is used to make the part.
(ii) Write down the physical property of the material. (2m)

	(i) Material used	(ii) Physical Property of the materia
tyre		
bus frame		

b) Can the head lamp be made from ceramic instead of glass? Why? (1m)

_____

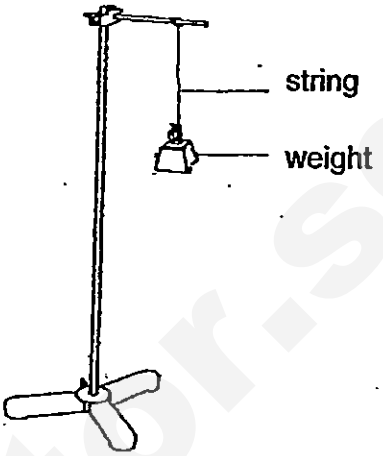
_____

3

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25 Charlene carried out an experiment with three types of strings. She hung 50g weights one at a time on each string until the string broke. She recorded her findings in the table below.

String	Weight hung on the string before the string broke
A	150g
B	100g
C	200g



a) Which physical property of the strings was Charlene testing? (1m)

_____

b) Based on the results, what can be concluded about string B? (1m)

_____

c) Which of the following must Charlene keep the same for the experiment to be a fair test. Tick the correct box(es). (1m)

Variable to keep the same	Tick (✓) the correct box(es)
1. Length of the string	
2. Total number of weights added	
3. Material of the string	

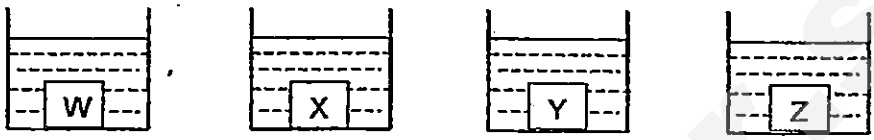
3

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26 There are 4 different types of materials, W, X, Y and Z of same thickness and size. Bryan set up an experiment to find out which material will absorb the most amount of water.

He placed the 4 materials into similar container containing 70 ml of water at the same time.

Start of experiment



After 5 minutes, he removed the materials and recorded the amount of water left in each container in the table below.

Material	Amount of water left in the container (ml)
W	69
X	47
Y	23
Z	55

a) Based on the table, which material, W, X, Y or Z, absorbs the least water? (1m)

_____

b) Which material, W, X, Y or Z, is the most suitable material for making a bath towel? (1m)

_____

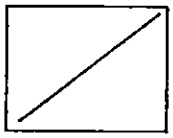
c) Explain your answer in part (b). (1m)

_____

_____

End of Booklet B

Please check your answers.



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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : RED SWASTIKA SCHOOL
SUBJECT : SCIENCE
TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	1	1	2	2	4	2	3	2
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18		
4	3	1	4	3	4	3	4		

Q19a. Part A: Stem Part B: Roots
Q19b. A. Q19c. Living things respond to changes around them.

Q20a. X: feeler Q20a. Y: leg
Q20b. Allows / helps the animal to fly.
Q20c. Both animals reproduce by laying eggs.
Q20d. Wings

Q21a. The plant at week one was shorter and has lesser leaves than plant at week three.
Q21b. 185ml

Q22a. Bat
Q22b. Both animal A and C feed on plants.
Q22c. No, a duck has two legs, but animal B has four legs.

Q23a. Bread M
Q23b. Moisture / Water / oxygen / Air
Q23c.. No, mould grew on the bread as there was not enough / insufficient warmth in the freezer.

Q24a. Tyre – rubber – waterproof / flexible / strong
Q24a. Bus frame – metal – strong / waterproof
Q24b. No, ceramics does not allow light to pass through but the head lamp should allow (most) light to pass through.

Q25a. Strength of the string
Q25b. String B was the weakest because it holds the least weight before it broke.
Q25c. Length of the string.

Q26a. Material W
Q26b. Material Y
Q26c. The water left in the container was the least which shows that material Y absorbs the most amount of water.

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RIVER VALLEY PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 / 2015
PRIMARY 3

SCIENCE

(BOOKLET A)

Name : _____ ( ) Date : 12th May 2015

Class : P3 _____ _____ Total Time for Booklet A & Booklet B : 1 hr

INSTRUCTIONS TO CANDIDATES

1. Write your name, index number and class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For Section A, shade your answers for questions 1 to 15 in the Optical Answer Sheet (OAS) provided.
6. For Section B, write your answers for questions 16 to 20 in the space provided in the booklet.
7. The total marks for Booklet A is 30 marks.

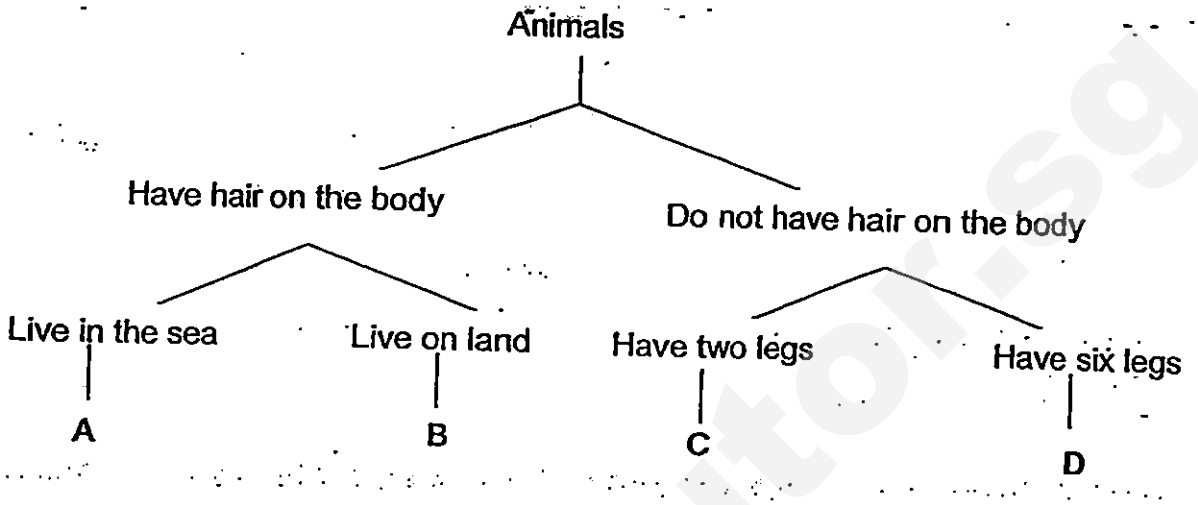
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Section A (30 marks)

For each question 1 to 15, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

1. The chart below shows the classification of four animals – A, B, C and D.



Which of the following (A, B, C or D) is most probably an insect?

(1) A

(2) B

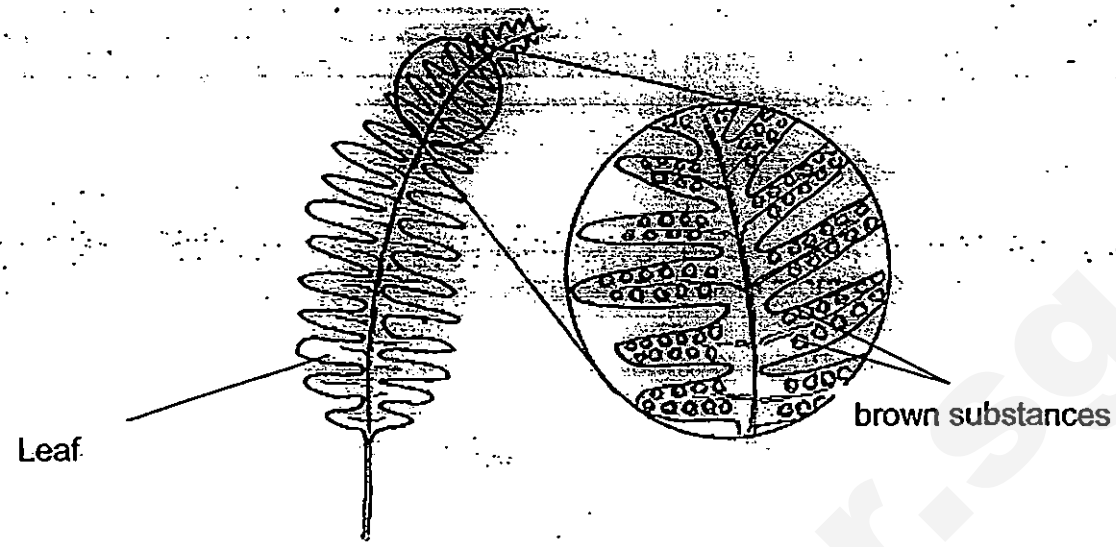
(3) C

(4) D

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2. Some girls came across an organism. When they observe closely, they found brown substances on it. The sketch that one of them made is shown below.



Based on the diagram above, which of the following groups can this organism be placed in?

Group A: Grows from spores	**Group B:** Bears flowers	**Group C:** Makes its own food

(1) Group A and B only

(2) Groups A and C only

(3) Groups B and C only

(4) Groups A, B and C

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3. Four pupils went on a hiking trip with their Science teacher. They saw a huge tree. Their teacher told them to study the tree carefully and write an observation about it. The children recorded the following observations.

Jacinta : It has entire edge leaves.
Samy : It has yellow flowers that grow in bunches.
Ismail : The fruit of the tree has a hair outer covering.
Hui Min : It has long roots that grew deep into the ground.

Which of the above students made a statement that is **not** based on his / her observations?

(1) Samy
(2) Ismail
(3) Jacinta
(4) Hui Min

4. Ferns are considered plants because they _____.

A : can be eaten
B : need air, food and water
C : do not produce flowers
D : can make their own food

(1) D only
(2) B and D only
(3) A,C and D only
(4) A, B, C and D only

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5. Sammy found Organism A in the garden and listed down the following observations.

Observations	Organism A
Able to make its own food	No
Able to move from one place to another	Yes
Needs air, water and food	Yes

Which of the following **can** Organism A be?

W : Ant

X : Cat

Y : Mushroom

Z : Mango Tree

(1) W only

(2) W and X only

(3) W, X and Y only

(4) W, X, Y and Z only

6. Three pupils Ram, Mary and David were talking about Organism X.

Ram: Some of them make us sick.
Mary: I can't see them. They are very tiny.
David: Some of them can be used to make yogurt.

Which of the following could Organism X be?

(1) Moss

(2) Mould

(3) Bacteria

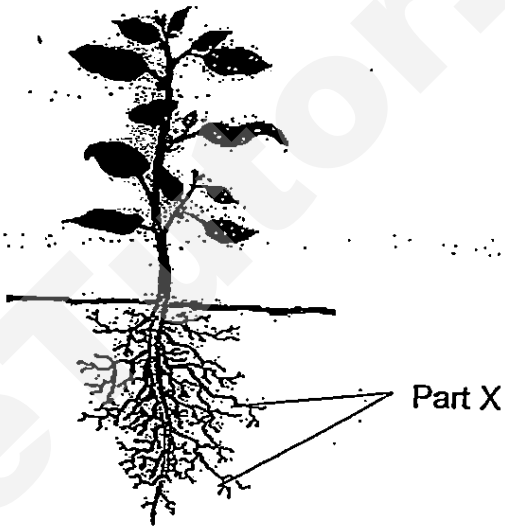
(4) Strawberry

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7. Which of the following statements is <u>true</u> about micro-organisms?

(1) They do not need air, food and water.
(2) Yeast is an example of micro-organisms.
(3) They can be seen using a magnifying glass.
(4) Bacteria are micro-organisms found only in air.

8. Study the diagram below.



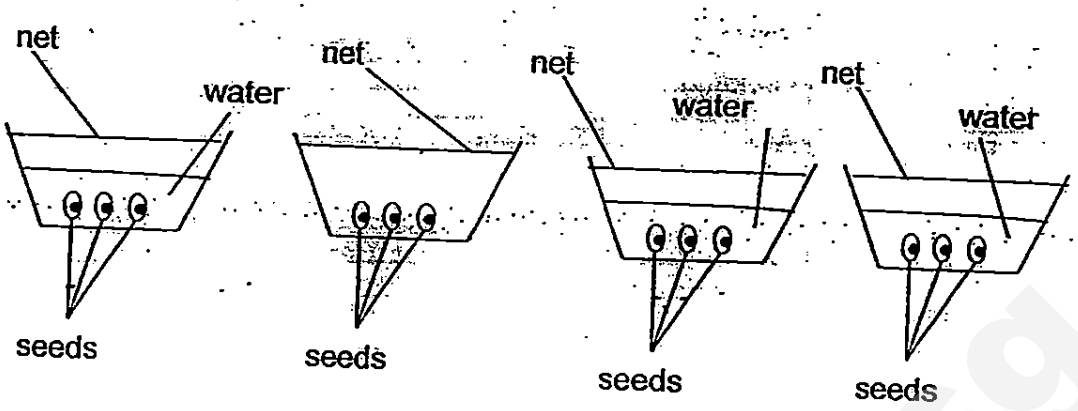
Which of the following is a function of Part X?

A: They make food.
B: They absorb water and minerals. /
C: They help the plants to reproduce.
D: The hold the plant upright for sunlight./

(1) A only
(2) B only
(3) A and C only
(4) B and D only

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14. Look at the set-ups below.



Set-up A
(In a fridge at 4°C)

Set-up B
(In the field)

Set-up C
(On the dining table)

Set-up D
(In a dark room)

Which of these setup(s) would the seeds germinate in?

(1) Set-up B only
(2) Set-up C only
(3) Set-ups A and C
(4) Set-ups C and D

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5. Wani planted four plants A, B, C and D, into four similar pots. She placed the plants under different conditions.

	Conditions		
Plant	Air	Sunlight	Water
A	Yes	Yes	Yes
B	No	Yes	Yes
C	Yes	No	Yes
D	No	Yes	No

Looking at the table above, which plant, A, B, C or D, will survive after a few weeks?

(1) A only

(2) B and C only

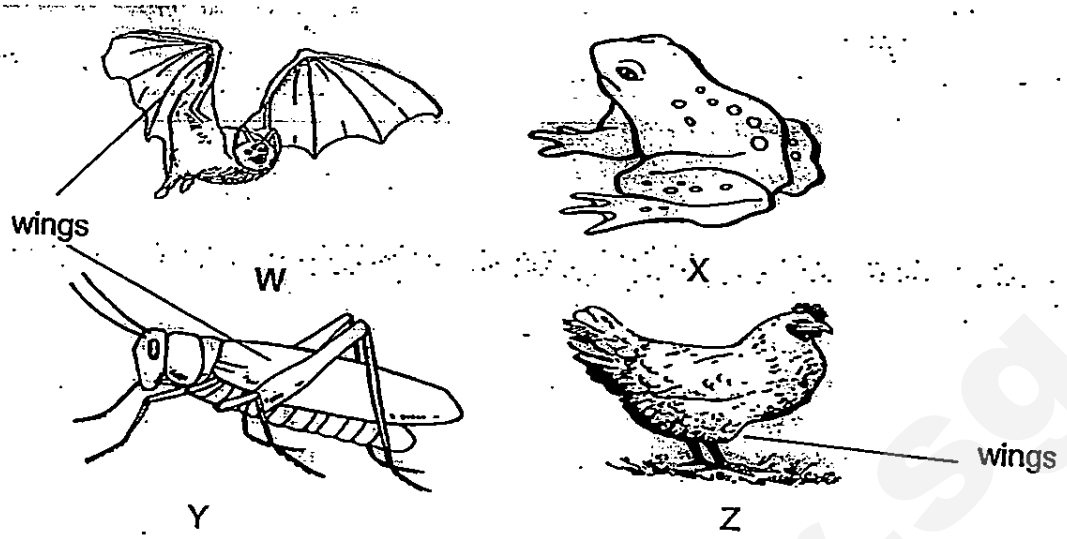
(3) B, C and D only

(4) A, C and D only

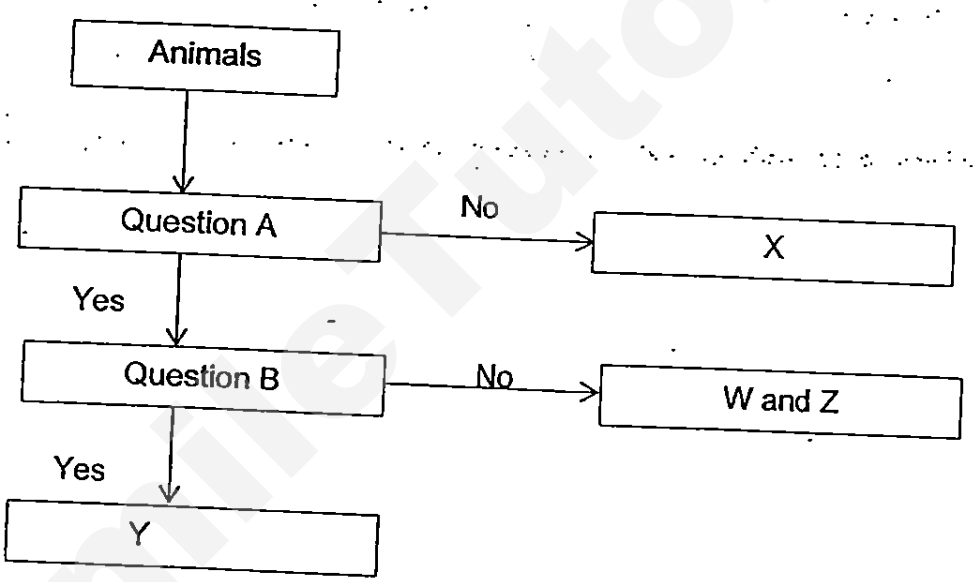
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12. Study the pictures below.



Ali classified the animals using the flowchart below.



What are the two questions, A and B, which will help Ali classify the animals?

	Question A	Question B
(1)	Do they have wings?	Do they have 6 legs?
(2)	Do they have 4 legs?	Do they have wings?
(3)	Do they have wings?	Do they have 4 legs?
(4)	Do they have 4 legs?	Do they have 6 legs?

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13. Jane, Mary and Sue observed leaves J and K as shown below. They each made a statement about the leaves.

Jane: Both leaves have the same edge.

Mary: Leaf J has a jagged edge but Leaf K has an entire edge.

Sue: Leaf J has an oval shape but Leaf K has a heart shape.



Leaf J



Leaf K

Which of the following pupil(s) has/have made the correct statement(s)?

(1) Sue only
(2) Mary only
(3) Jane and Mary only
(4) Mary and Sue only

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9. Which of the following statements show that living things respond to changes?

A : A deer runs away when it sees a tiger.

B : A turtle hides in its shell when we touch it.

C : Tom screams and runs away when he sees a snake.

D : The leaves of the mimosa closes when they are touched.

(1) A and B only

(2) B and D only

(3) A, B and C only

(4) A, B, C and D only

10. Vidya observed an adult animal and recorded the following information.

- It has four legs.
- It has no fins and no gills.
- It can live both in water and on land.
- It lays eggs in water.

Based on the information given, which of the following statements are **true**?

A : The animal is not a bird.

B : The animal is not a fish.

C : The animal is not a mammal.

D : The animal is not an insect.

(1) A and B only

(2) C and D only

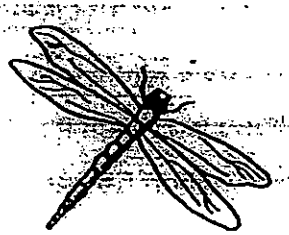
(3) B, C and D only

(4) A, B, C and D only

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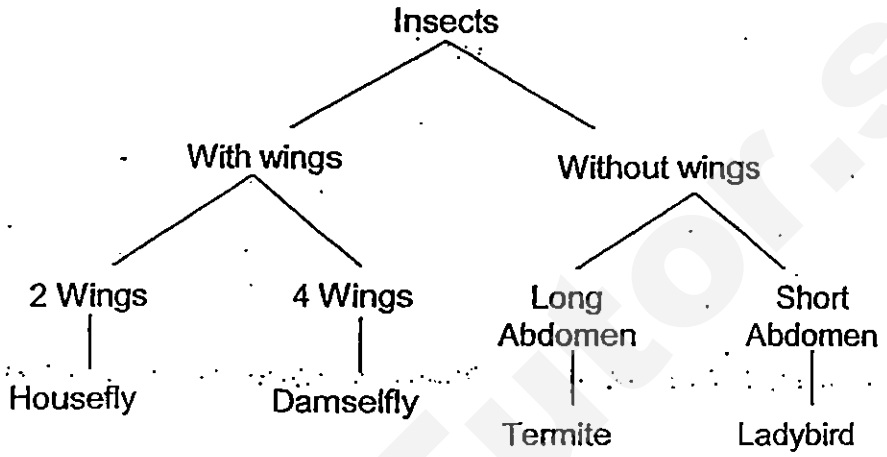
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11. John found Insect S while he was camping.



Insect S

He then used the chart below to identify Insect S.



Based on the diagram and the chart, which of the following could Insect S be?

(1) Termite

(2) Ladybird

(3) Housefly

(4) Damselfly

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RIVER VALLEY PRIMARY SCHOOL
[redacted] ASSESSMENT 1 / 2015
SOMESTAN PRIMARY 3

SCIENCE

(BOOKLET B)

Name : _____ ( ) Date : 12th May 2015

Class : P3 _____ Total Time for Booklet A & Booklet B : 1 hr

INSTRUCTIONS TO CANDIDATES

1. Write your name, index number and class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For Section A, shade your answers for questions 1 to 15 in the Optical Answer Sheet (OAS) provided.
6. For Section B, write your answers for questions 16 to 20 in the space provided in the booklet.
7. The total marks for Booklet B is 20 marks.

Booklet A		/30
Booklet B		/20
Total		/50
Parent's Signature		

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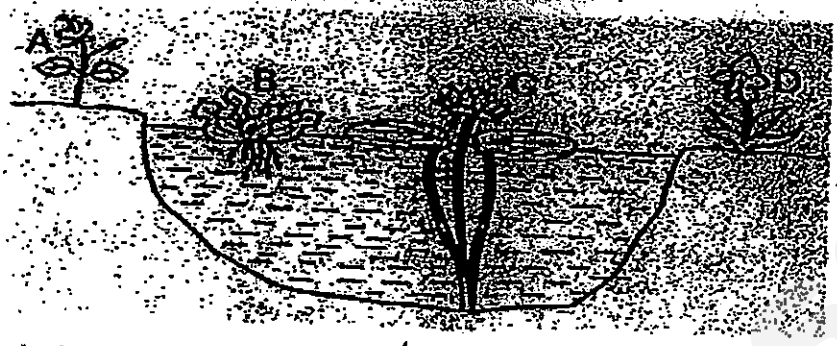
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Section B (20 marks)

Write your answers to questions 16 to 20 in this booklet.

16. The diagram below shows some flowering plants.



a) Classify Plants A, B, C and D in the classification table below. [2m]

Land Plants	Water Plants

b)



Plant E

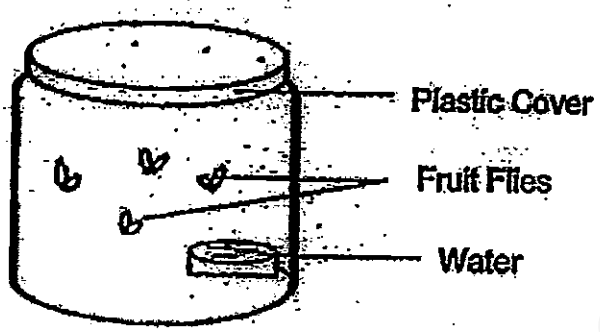
State a difference between Plant D and Plant E.[1m]

c) Zoe said that a mushroom can be classified in the same group as Plant A. Do you agree? Explain your answer. [1m]

4

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17. Jerome placed four fruit flies in a jar as shown below.



a) State one living thing and one non-living thing from the picture above.[2m]

Living thing : _____

Non-living thing : _____

b) State two things that Jerome should do to ensure that the fruit flies would be alive in the jar for some time. [2m]

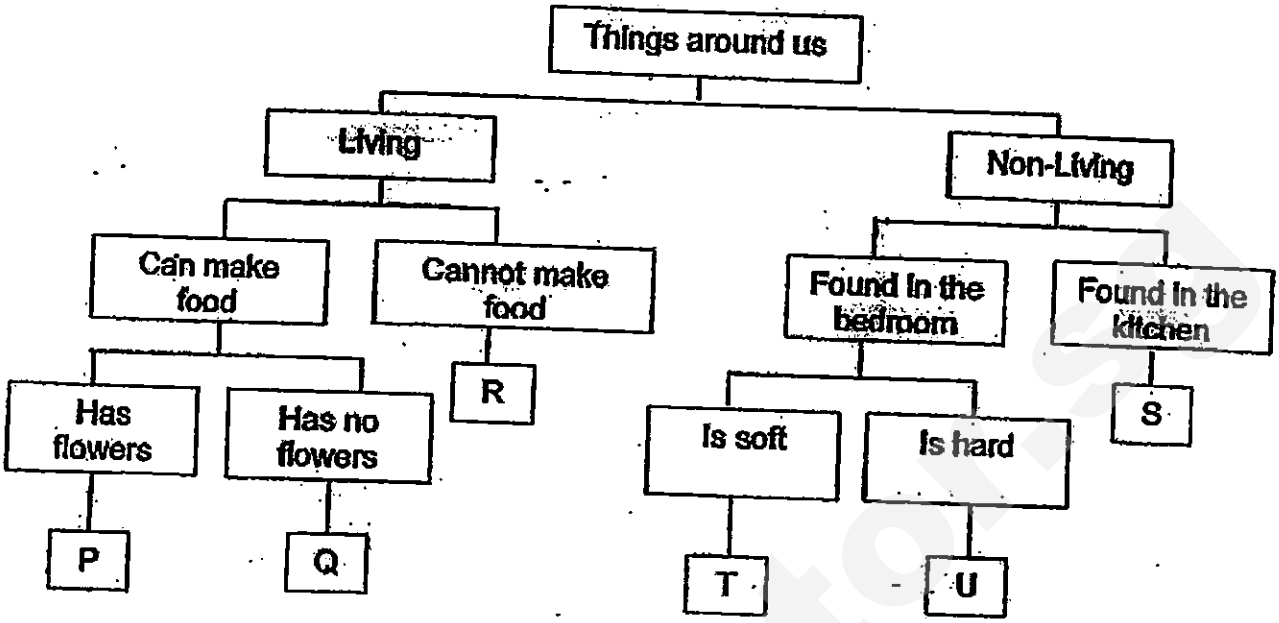
(i) _____

(ii) _____

	4

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18. Study the classification chart below



a) Based on the flowchart, state the characteristics of Q. [1m]

b) What is the difference between S and U? [1m]

c) What is the similarity between P and R? [1m]

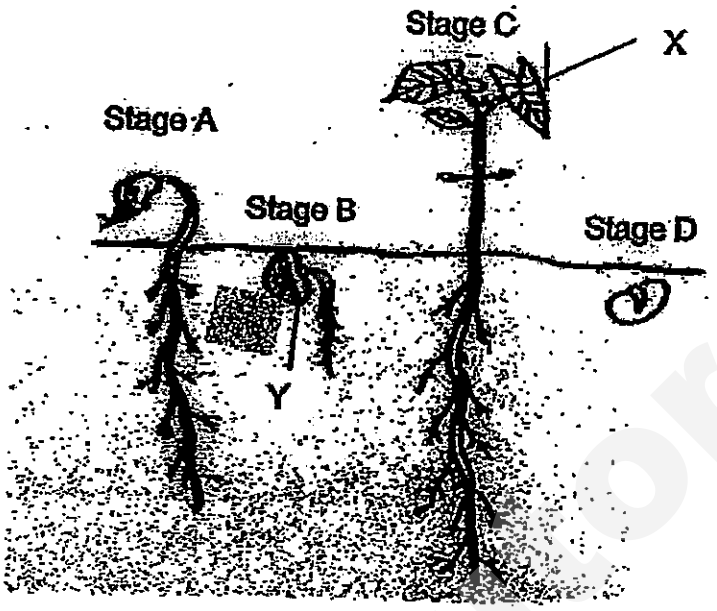
d) In which group (P, Q, R, S, T or U) would you place the following things? [1m]

i) Parrot :_____ ii) Pot: _____

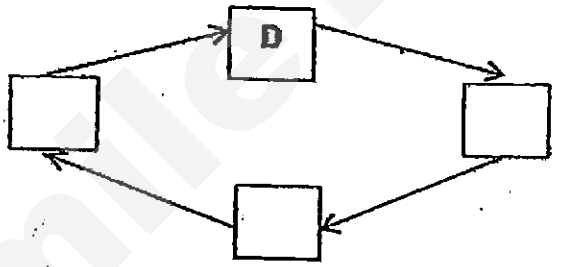
4

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19 The diagram below shows the stages of the growth of a bean plant from a seed. Study the diagram to answer the following questions.



a) Arrange the stages (A, B, C, D) of the growth of the bean plant in the correct order. [1m]



b) What conditions are needed for the seed to germinate? [1m]

2

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c) Fill in the table below with the name or function of both Part X and Y. [2m]

	Name	Function
Part X	(i) _____	To make food for the plant.
Part Y	Seed Leaf	(ii) _____

	2

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20 Fill in the table below. State the animal groups of the animals in the picture and <u>ONE</u> other common characteristic that is shared by organisms in each of the animal group. [4m]

Animals	Animal Group	Characteristics
 Animal X	a)_____	i) <u>Give birth to young alive.</u> ii) _____
 Animal Y	b)_____	i) <u>Have feathers.</u> ii) _____

	4

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EXAM PAPER 2015

SCHOOL : RIVER VALLEY

SUBJECT : P3 SCIENCE

TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	4	1	2	3	2	2	4	4
Q11	Q12	Q13	Q14	Q15					
4	1	2	2	1					

16)a) <u>Land Plants</u> <u>Water Plants</u>

Plant A Plant B

Plant D Plant C

b) Plant E is a non-flowering plant but Plant D is a flowering plant.

c) I do not agree with her. Mushroom is not a flowering plant while Plant A is a flowering plant.

17) a) Living thing: fruit flies Non-living thing: Plastic cover, water

b) i) She could poke some holes on the plastic cover so there is air.

ii) She could put some food in the jar so the fruit flies would not die.

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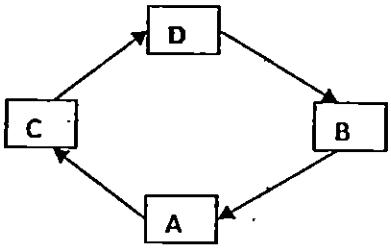
18) a) Q is not a flowering plant.

b) S is found in the kitchen but U is found in the bedroom.

c) Both P and R are plants.

d) i) R ii) S

19) a)



b) It need sunlight, water and nutrients to germinate.

c) i) leaf

ii) to provide food for the plant

20) a) Mammal

aii) Have an outer covering of fur

b) Bird

bii) Lay eggs.

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Rosyth School
Semestral Examination 1 for 2015
SCIENCE
Primary 3

Total Marks: 40

Name: _____

Class: Pr 3 _____ Register No. _____ Duration: 1 h 30 min

Date: 14 May 2015 Parent's Signature: _____

BOOKLET A

Instructions to Pupils:

1. Do not open the booklets until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 2 booklets, Booklet A and Booklet B.
4. For questions 1 to 20 in Booklet A, shade the correct ovals on the Optical Answer Sheet (OAS) provided using a 2B pencil.
5. For questions 21 to 32, give your answers in the spaces given in Booklet B.

* This booklet consists of 12 pages.

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Part I (40 MARKS)

For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

1. Study the table carefully.

Living Things	Non-Living Things
Lion Sunlight Mushroom	Table Clouds Race Car

Which one of the above has been grouped wrongly?

(1) Lion
(2) Clouds
(3) Sunlight
(4) Race Car

2. Three students made the following statements about living things.

Adam: All living things have hair.
Bala: All living things can make their own food.
Clara: All living things reproduce their own kind.

Who has/have made the correct statement(s)?

(1) Bala only
(2) Clara only
(3) Adam and Bala only
(4) Bala and Clara only

3. Which of the following statement(s) show/s that living things move from place to place by themselves?

A: Jenny grows taller after 6 months.
B: A plant folds its leaves when touched.
C: A cat runs away when it sees a person nearby.

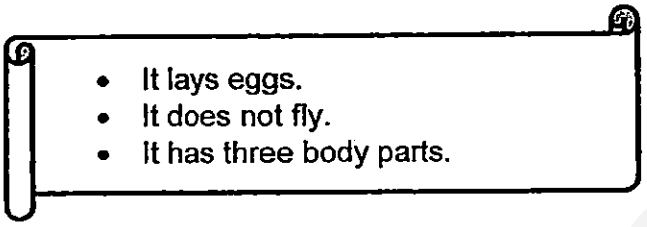
(1) A only
(2) C only
(3) A and C only
(4) A, B and C

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4. Which characteristic(s) is/are similar between plants and animals?

(1) Both lay eggs and die.
(2) Both make their own food.
(3) Both grow and reproduce.
(4) Both move about to get food.

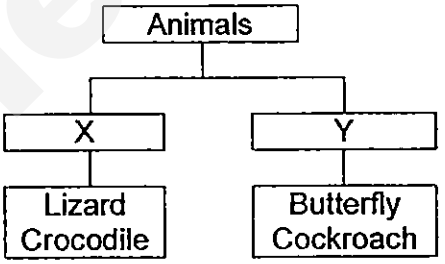
5. Sam caught an organism and observed its behaviour. He described its behaviour as follows:



Which one of the following groups does the organism belong to?

(1) Bird
(2) Insect
(3) Reptile
(4) Mammal

6. Study the classification chart below.

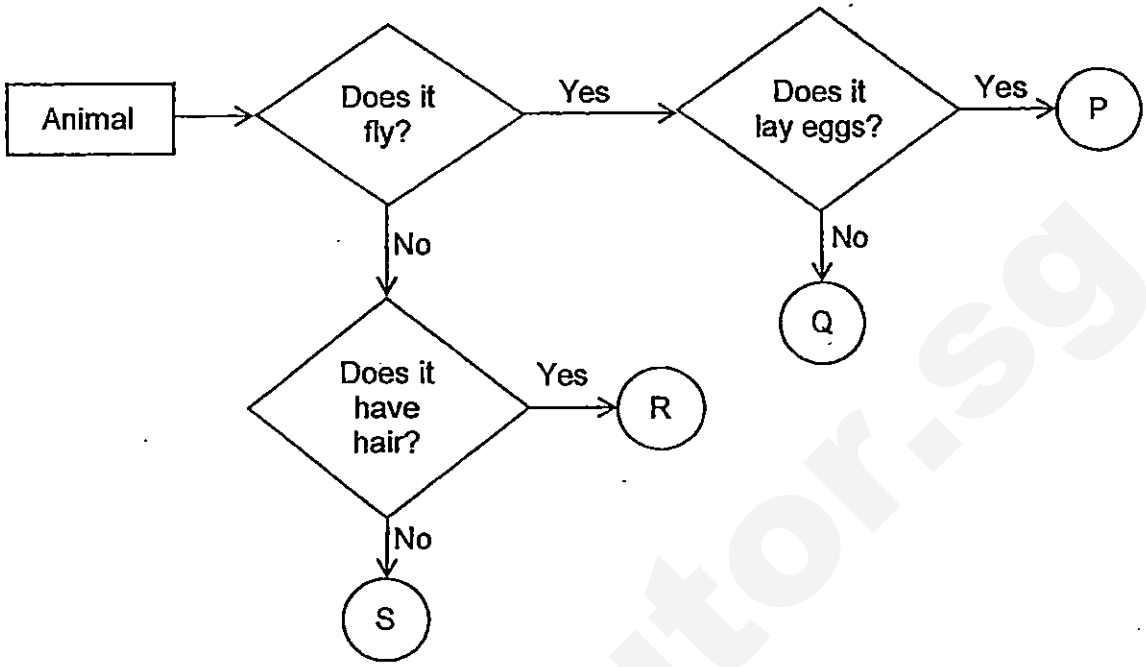


Which one of the following set of headings are best represented by X and Y?

	X	Y
(1)	With gills	Without gills
(2)	With scales	Without scales
(3)	Lives in water	Lives on land
(4)	Lays eggs in water	Lays eggs on land

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Study the flow chart below carefully and answer questions 7 and 8.



7. Which of the following is/are a characteristic(s) of animal S?

A	It has hair.
B	It does not fly.
C	It does not lay eggs.

(1) A only
(2) B only
(3) B and C only
(4) A, B and C

8. Which letter, P, Q, R or S, best represents the animal shown below?



(1) P
(2) Q
(3) R
(4) S

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9. Which one of the following statements is true for all plants?

(1) All plants bear flowers.
(2) All plants grow on land.
(3) All plants reproduce through seeds.
(4) All plants need sunlight to make food.

10. Ashton saw a plant in the school garden. He used a list of questions to decide what kind of plant it was. His answers to the questions are as follows:

Question	Answer
Does it bear fruits?	Yes
Does it live on land?	Yes
Does it have spores?	No

Which one of the following is most likely what Ashton saw?

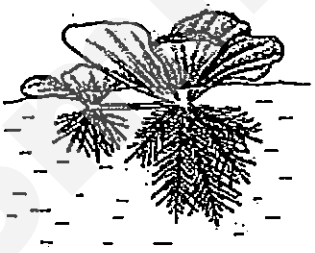
(1)



(2)



(3)



(4)



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11. Study the classification table below.

Living Things	
Group A	Group B
 	 

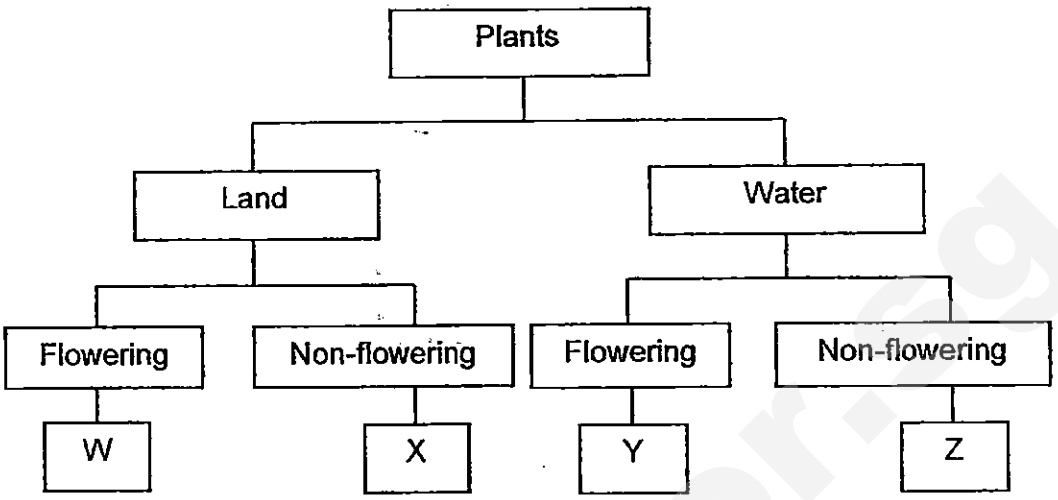
The living things in Group A and Group B have similar characteristics. Which of the following statement(s) is/are true?

X: All the living things are plants.
Y: All the living things make their own food.
Z: All the living things need air, food and water.

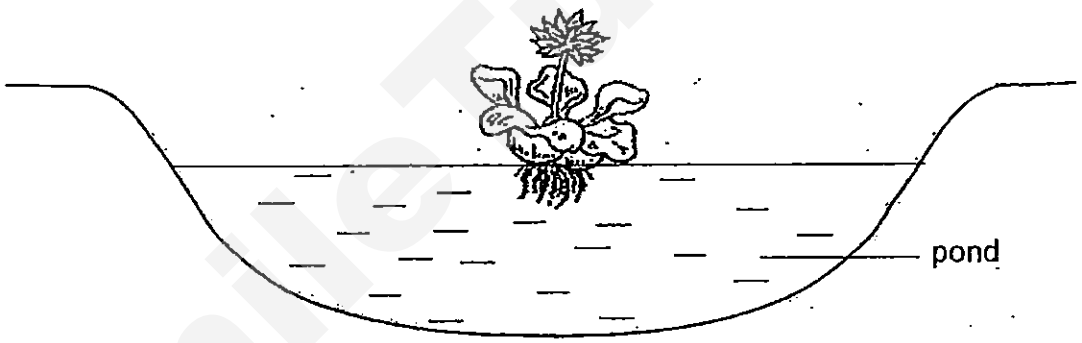
(1) X only
(2) Z only
(3) Y and Z only
(4) X, Y and Z

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12. Study the classification chart below.



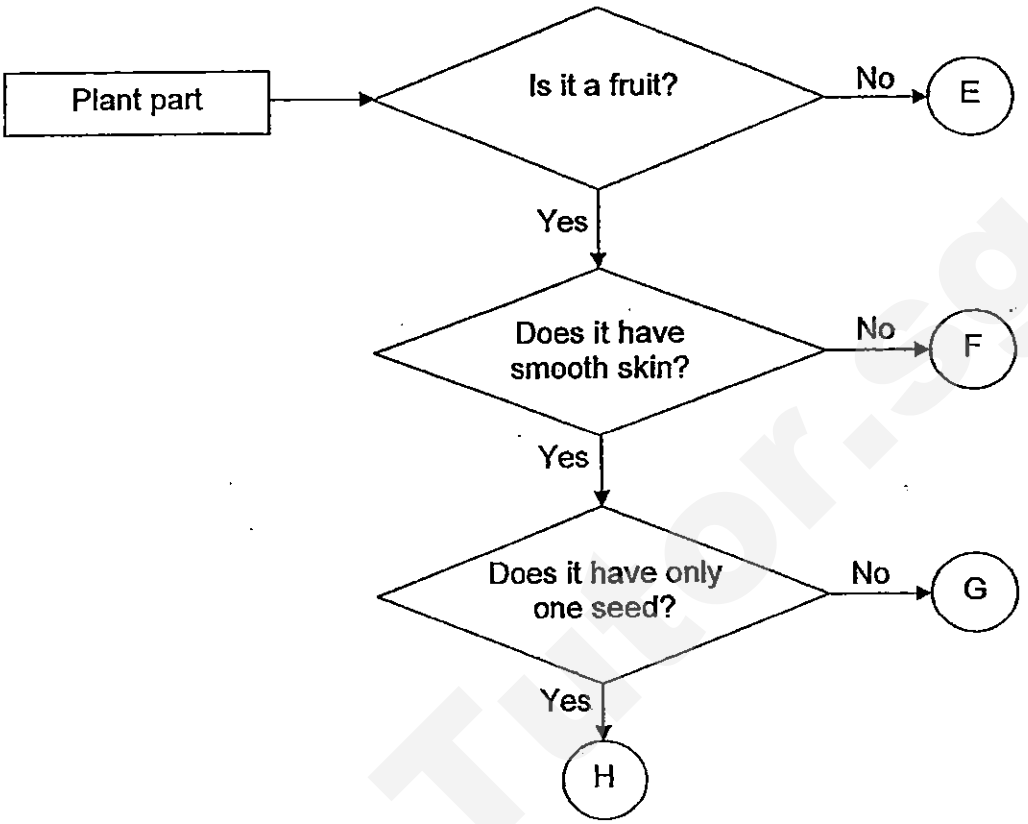
Which letter, W, X, Y or Z, best represents the plant as shown below?



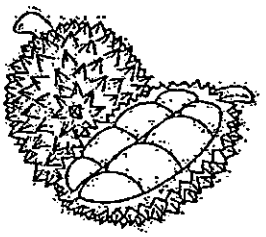
(1) W
(2) X
(3) Y
(4) Z

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13. Study the flow chart ~~below~~ below.



Which letter, E, F, G or H, best represents the plant part as shown below?



(1) E
(2) F
(3) G
(4) H

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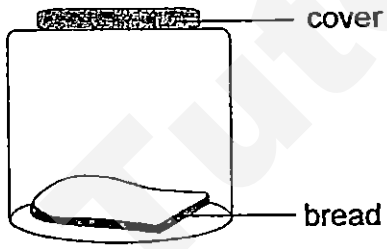
14. The table below shows statements about the characteristics of bacteria.

Statements	Characteristics of bacteria
J	All bacteria are harmful to us.
K	All bacteria reproduce by spores.
L	Most bacteria can make their own food.
M	Bacteria can be observed only by using the microscope.

Which of the above statement(s) is/are correct?

(1) M only
(2) J only
(3) J, L and M only
(4) K, L and M only

15. Siti placed a slice of bread into a jar as shown below and kept it in a dark room.



She did the same for three other slices but changed the amount of water dropped onto each slice of bread. She observed and recorded the number of days each bread started to turn mouldy in a table below.

Bread	Amount of water (ml)	Number of days the bread started to turn mouldy
W	0	7
X	3	5
Y	6	4
Z	9	3

Based on the results above, which one of the following statement is correct?

(1) Bread W was the first to turn mouldy.
(2) Mould grows best in dry and dark conditions.
(3) The smaller the amount of water added, the faster the bread turned mouldy.
(4) The greater the amount of water added, the faster the bread turned mouldy.

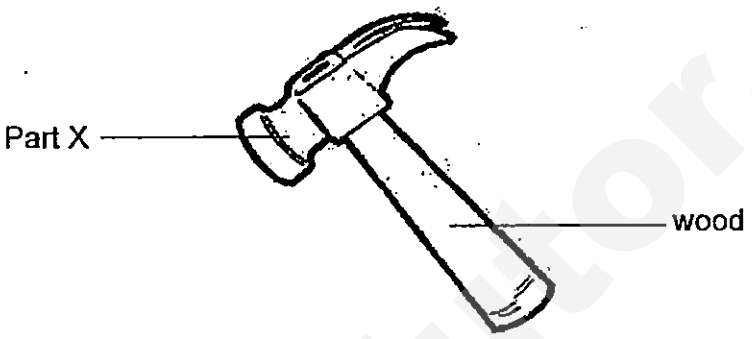
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16. Natalie wore a raincoat over her uniform and walked in the rain. When she reached home, she noticed that her uniform was dry.

What is the property of the raincoat that can be inferred from Natalie's observation?

(1) Strength
(2) Flexibility
(3) Waterproof
(4) Transparency

17. The picture below shows a hammer.



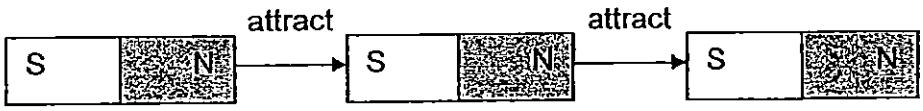
Part X of the hammer is usually made of metal while the handle is made of wood. Which one of the following properties is the reason that part X is made of metal?

(1) It is strong.
(2) It is flexible.
(3) It is waterproof.
(4) It sinks in the water.

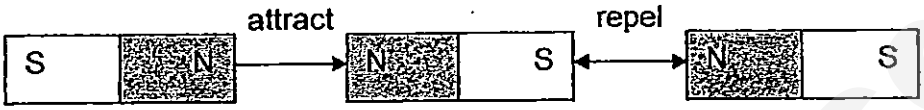
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18. Which one of the following diagrams shows the property of magnet correctly?

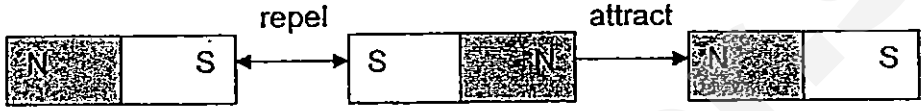
(1)



(2)



(3)



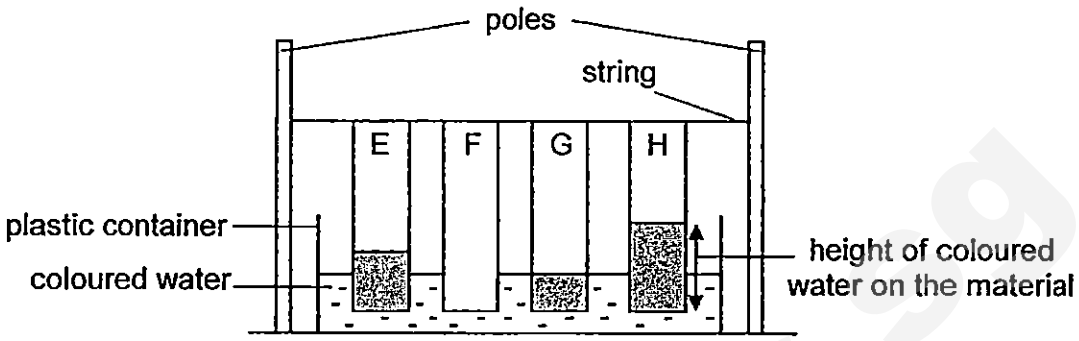
(4)



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19. Four different materials, E, F, G and H, of the same size and shape were used in the experiment set up as shown below. The height of the coloured water on the material was measured after 5 minutes and recorded in a table.



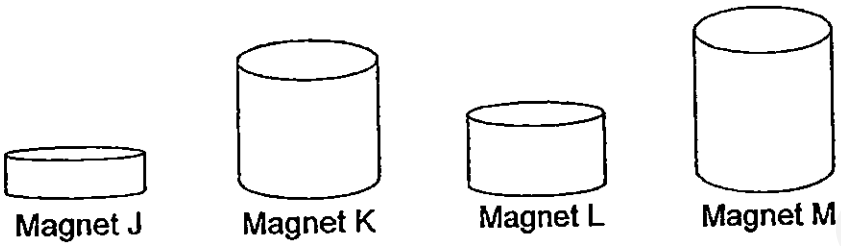
Material	Height of coloured water on the material after 5 mins (cm)
E	10
F	0
G	8
H	13

Based on the table above, which material is most suitable for making an umbrella?

(1) Material E
(2) Material F
(3) Material G
(4) Material H

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20. Muthu had four different magnets as shown below. He brought them close to some paper clips.



He observed and recorded the number of paper clips attracted by each magnet in the table as shown below.

Magnets	Number of paper clips attracted
J	28
K	17
L	12
M	15

What can he conclude from the results above?

(1) The strength of a magnet depends on its size.
(2) Bigger magnets are weaker than smaller magnets.
(3) Smaller magnets are stronger than bigger magnets.
(4) The strength of a magnet does not depend on its size.

End of Booklet A

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Rosyth School
Semestral Examination 1 for 2015
SCIENCE
Primary 3

Total Marks: 70

Name: _____

Class: Pr 3 _____ Register No. _____ Duration: 1 h 30 min

Date: 14 May 2015 Parent's Signature: _____

BOOKLET B

Instructions to Pupils:

1. For questions 21 to 32, give your answers in the spaces given in this Booklet B.

	Maximum	Marks Obtained
Booklet A	40 marks	
Booklet B	30 marks	
Total	70 marks	

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Part II (30 MARKS)

For questions 21 to 32, write your answers in this booklet.

21. Charlie carried out an observation on two items A and B. The table below shows his findings.

Item	Does it move on its own?	Does it grow?	Does it reproduce?
A	Yes	Yes	Yes
B	Yes	No	No
C			

(a) State the differences between items A and B. (1m)

Difference 1: _____

_____

Difference 2: _____

_____

(b) Charlie was told that item C is a plant. Complete the table above by writing 'Yes' or 'No' about item C in the boxes. (1m)

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22. Benjamin bought an equal number of male and female guppies and kept them in a fish tank. He recorded the number of guppies in the fish tank at the end of each month over a period of four months. His findings are as shown below.

Month	Number of guppies
1st	5
2nd	14
3rd	19
4th	23

(a) From the table above, what do you observe about the number of guppies from the 1st Month to 4th Month? (1m)

_____

_____

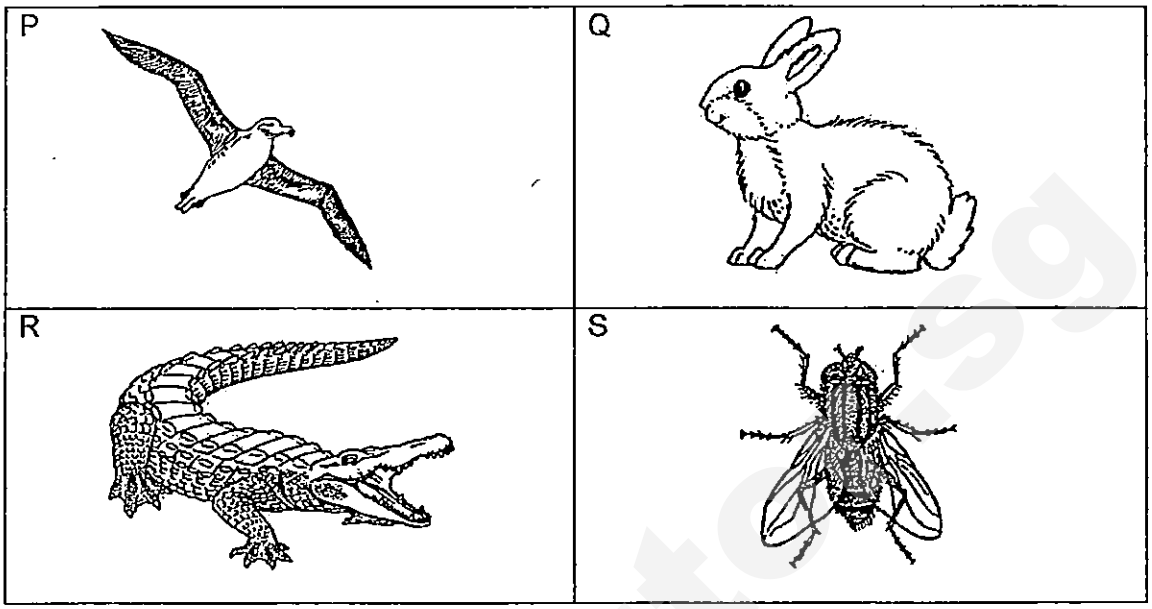
(b) What is the characteristic of living things observed from the 1st Month to 4th Month? (1m)

_____

_____

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23. Paul cut out photographs of different animals from a magazine. The photographs were labelled as shown below.



(a) Paul used the table below to group the animals according to how they move from place to place. Write the correct letters P, Q, R and S in the classification table below. (1m)

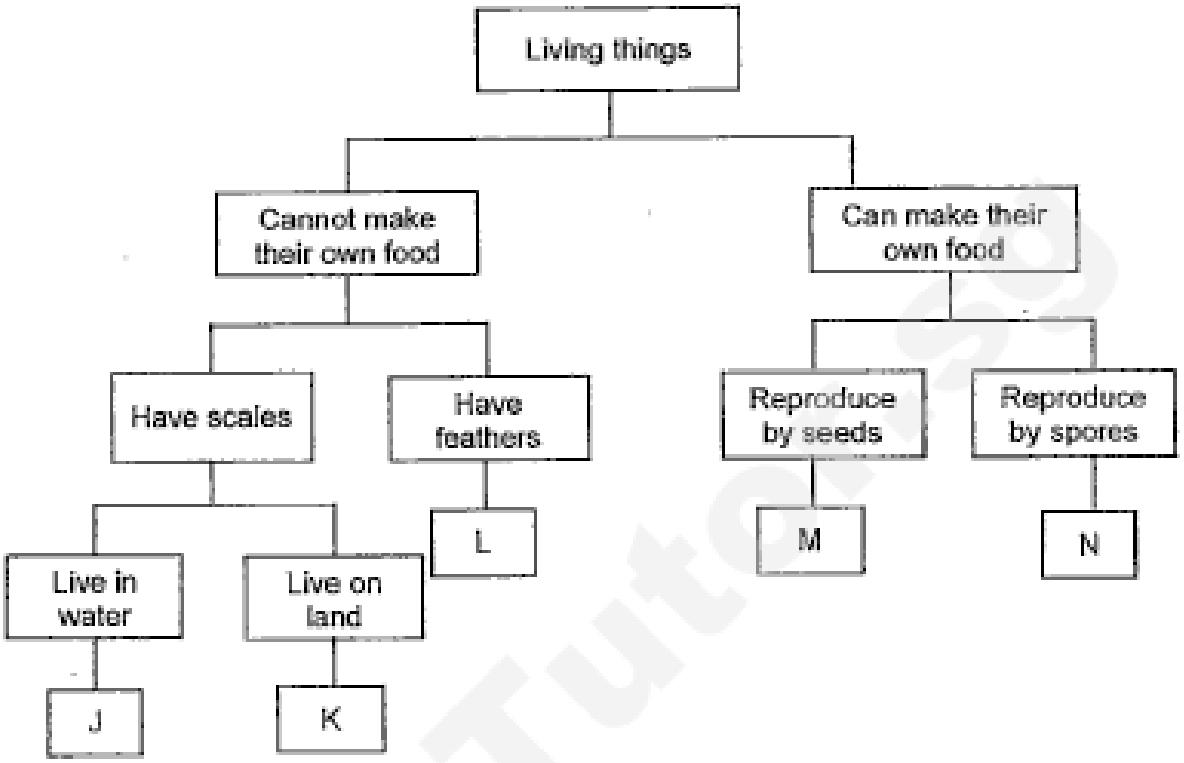
Animals	
Group A	Group B

(b) Paul was told that he could also group the animals according to how they reproduce. Write the correct letters P, Q, R and S in the classification table below. (1m)

Animals	
Group A	Group B

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24. Study the chart below.



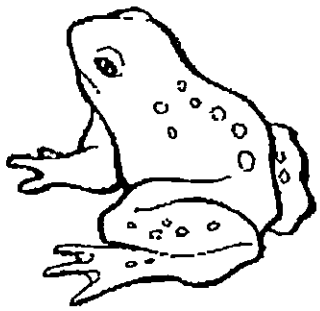
(a) State the characteristics of living thing N. (1m)

(b) State one similarity between living things J and L. (1m)

Question 24 continues on page 5

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John studied about living thing P as shown below.



Living thing P

(c) He stated that it could be in the same group as living thing J. Do you agree? Explain why. (1m)

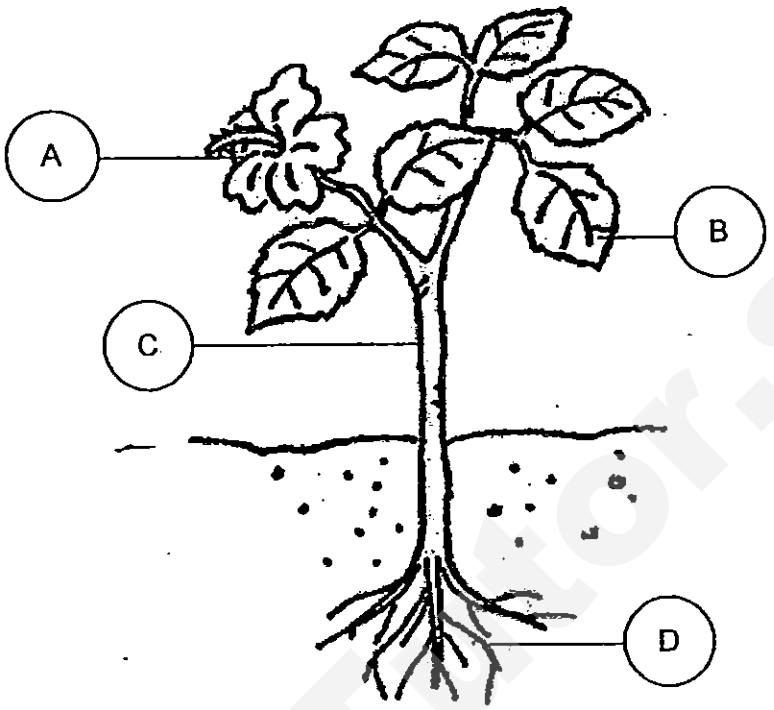
_____

_____

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25. Name the labelled parts of the plant in the boxes provided.



A: _____

B: _____

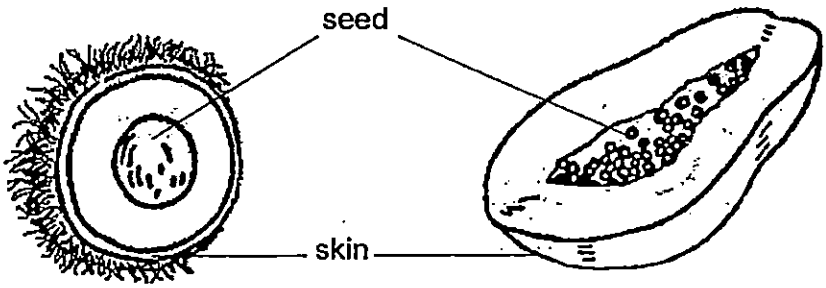
C: _____

D: _____

(2m)

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26. Jenny observed two cut fruits as shown below.



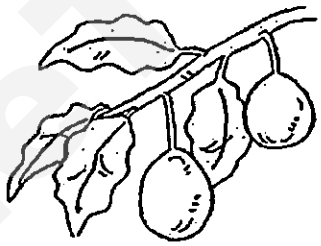
rambutan papaya

(a) Based on your observation of the diagram above, state a difference between the two fruits. (Do not compare their size and shape.) (1m)

_____

_____

Jenny spotted a plant that bears fruits that she had never seen before. She sketched part of the plant as shown below.



(b) Based on her drawing, fill in the blanks with 'True' or 'False'. (1m)

(i) It is a flowering plant. _____

(ii) The plant reproduces through spores. _____

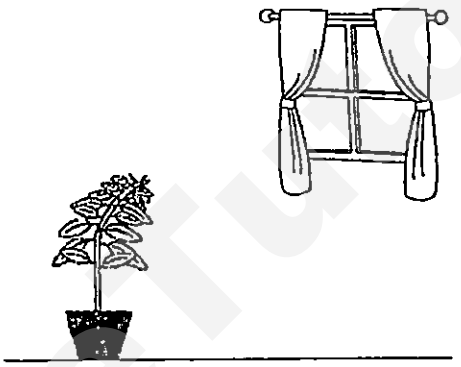
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27. Priscilla observed the growth of four plants A, B, C and D under different conditions. The conditions are as shown below.

Plants	Conditions		
	Presence of Air	Presence of Water	Presence of Sunlight
A	Yes	Yes	Yes
B	Yes	Yes	No
C	No	Yes	Yes
D	No	No	No

(a) Which plant would survive the longest? (1m)

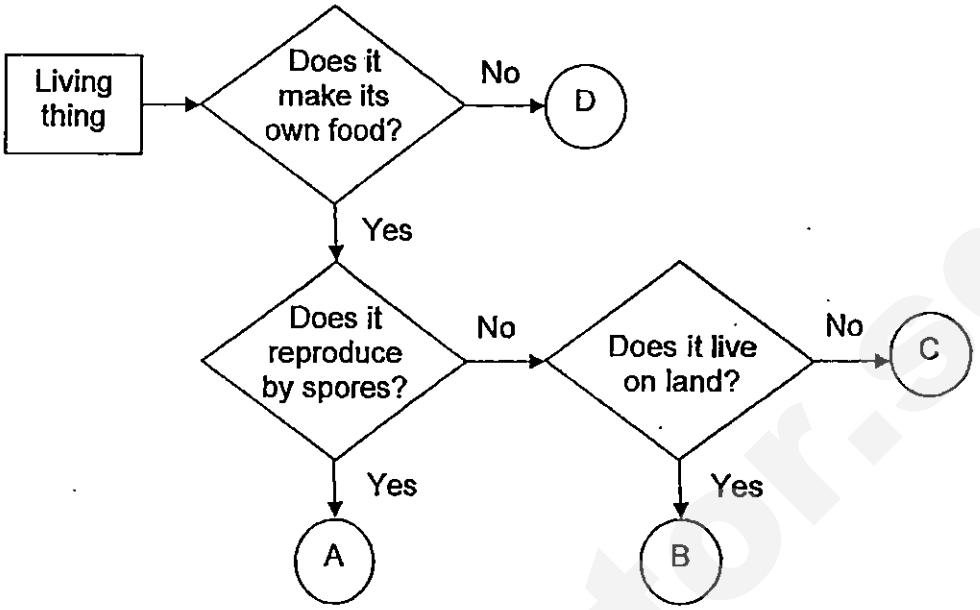
She noticed that one of the plants was growing as shown below.



(b) State the characteristic of living things observed in the diagram above. (1m)

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28. The flow chart below shows how living things are classified.

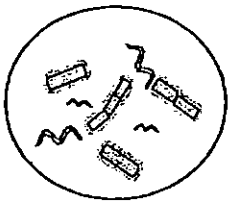


(a) Based on the flow chart above, state a difference between Living things A and C. (1m)

_____

_____

(b) Dave saw some bacteria under a microscope as shown below.



Bacteria

He said that it should be placed in B. Do you agree with him? Explain why. (1m)

_____

_____

Question 28 continues on page 10

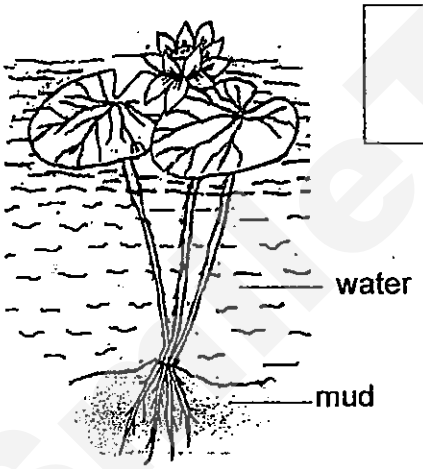
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(c) Based on the flow chart, which of the letters, A, B, C or D, best represents the following living things? Write A, B, C or D in each of the boxes provided. (2m)

(i)



(ii)

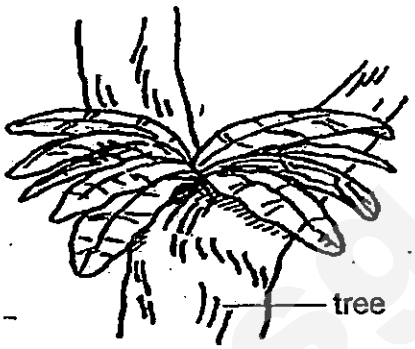


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29. Refer to the diagrams below.



Fungi



Fern

(a) How do the fungi and fern in the diagrams above get their food? (2m)

_____

_____

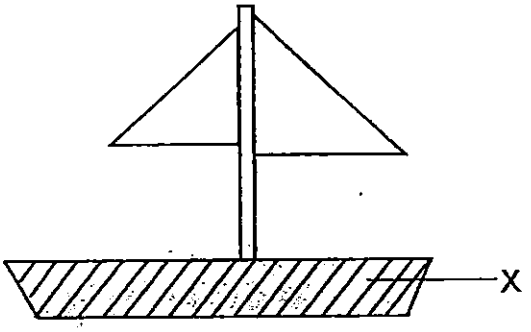
(b) How do fungi and ferns reproduce? (1m)

_____

_____

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30. Study the diagram below.



(a) The diagram above shows a toy sailboat made of cardboard. It is able to float on water at the start but sinks after a while. Explain why. (1m)

_____

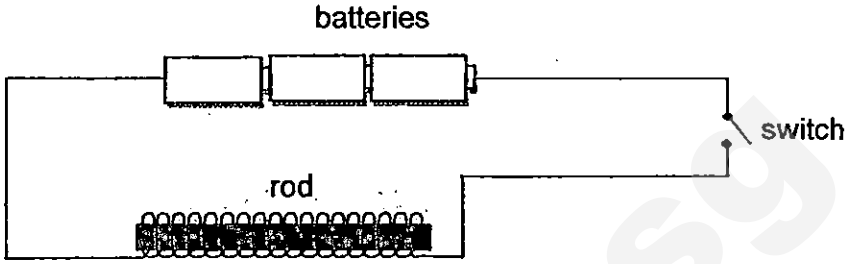
_____

(b) Suggest a suitable material for 'X' so that the toy sailboat can stay afloat on water. (1m)

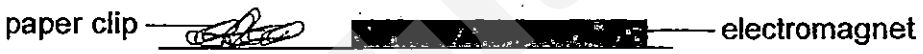
Material: _____

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31. Afiq tried to magnetise 3 rods, J, K and L, as shown below. He used three new batteries, a switch, a wire and three rods of different materials. The three rods were of the same size and shape. The number of coils used to magnetise each rod is also the same.



After the three rods had been magnetised, he conducted an experiment to test their strength by placing some paper clips near one end of each of the electromagnet as shown below.



He recorded the results in a table as shown below.

Electromagnet	J	K	L
Number of paper clips attracted to the electromagnet	0	10	0

(a) Based on the table above, the number of paper clips attracted to the Electromagnets J and L was zero. Explain why. (1m)

(b) Suggest what Afiq could do to Electromagnet K if he wanted to attract more than ten paper clips. (1m)

Question 31 continues on page 14

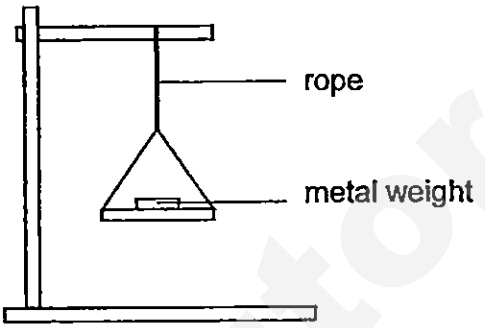
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(c) Afiq dropped Electromagnet K onto the floor a number of times. He then used it to attract the paper clips. What do you think Afiq would observe? (1m)

_____

_____

32. Tiara set up an experiment to test the strength of 3 ropes, E, F and G, as shown below.



The table below shows the number of weights that each rope could hold before it broke.

Rope	Number of weights
E	10
F	25
G	20

(a) Which rope, E, F or G, is the strongest? Explain your choice. (2m)

_____

_____

(b) Arrange the ropes, E, F and G, according to their strength starting from the weakest to the strongest. (1m)

[ ] , [ ] , [ ]

weakest

End of Paper

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : ROSYTH SCHOOL
SUBJECT : SCIENCE
TERM : SA1

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
3	2	2	3	2	2	2	1	4	1
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
2	3	2	1	4	3	1	1	2	4

Q21a. Difference 1: Item A can grow but item B cannot.

Q21a. Difference 2: Item A can reproduce but item B cannot.

Q21b. **SEE PICTURE** (next page)

Q22a. The number of guppies in the tank got larger.

Q22b. All living things reproduce Q23a. **SEE PICTURE (next page)**

Q23b. **SEE PICTURE (next page)**

Q24a. Living thing N can make their own food and it reproduces by spores .

Q24b. Both of them cannot make their own food.

Q24c. I don't agree because living thing P does not have scales and living things J has scales.

Q25. A : flower B: leaves C: Stem D:root

Q26a. The rambutan has rough skin but the papaya has smooth skin.

Q26b. (i) TRUE Q26b(ii) FALSE Q27a. Plant A will survive the longest

Q27b. Living things respond to changes.

Q28a. Living thing A reproduces by spores but living thing C does not reproduce by spores.

Q28b. I do not agree with Dave because Bacteria cannot make its own food.

Q28c. (i) B Q28c (ii) C

Q29a. Fungi feeds on the living things that its growing on while the fern makes its own food.

Q29b. Both of them reproduce by spores.

Q30a. It sank because the cardboard absorbed the water and the ship got heavier, so it sank.

Q30b. Plastic Q31a. Because Electromagnet J and L were not a magnetic material.

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Q31b. If Afiq want more paper clips , he could add more batteries to the electromagnet.

Q31c. Electromagnet K will attract less or probably even no paper clips.

Q32a. Rope F is the strongest as it managed to hold the most number of weights before it broke.

Q32b B (weakest), G , F

21.b.

Item	Does it move on its own?	Does it grow?	Does it reproduce?
A	Yes	Yes	Yes
B	Yes	No	No
C	YES	YES	YES

23 .

Animals	
Group A	Group B
P , S	Q , R

(b) Paul was told that he could also group the animals according to how they reproduce. Write the correct letters P, Q, R and S in the classification table below. (1m)

Animals	
Group A	Group B
R,P,S	Q

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SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2015

SCIENCE

PRIMARY THREE

NAME: _____( ) DATE: _____

CLASS: PRIMARY 3 SY / C / G /SE/ P

BOOKLET A

15 questions

30 marks

Total time for Booklets A& B: 1 h

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

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Part I (15 x 2 marks)

For each question from 1 to 15, four options are given.
One of them is the correct answer. Make your choice (1, 2, 3 or 4).
Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Benjamin wrote down the characteristics of a penguin as follows:

A: It can grow.
B: It has thick hair
C: It needs air, food and water.
D: It suckles its young with milk.

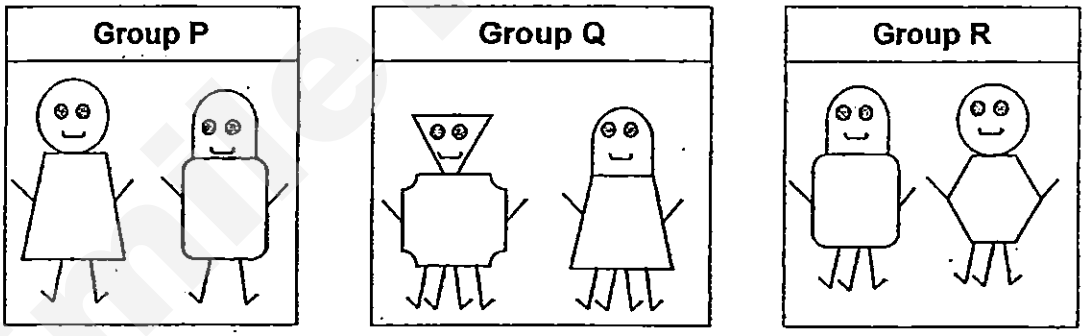


Penguin

Which of the above statements are correct?

1) A and C only
2) B and C only
3) A, B and C only
4) A, B and D only

2. The robots below have been grouped according to their characteristics.

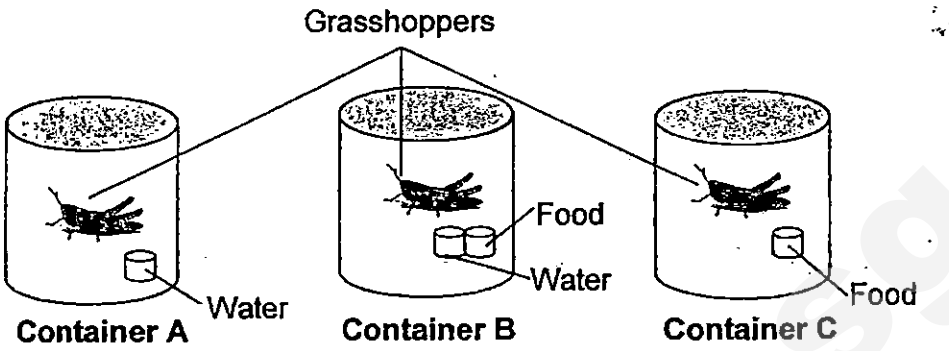


The robots were grouped according to their _____.

1) number of eyes
2) number of legs
3) shape of the head
4) type of body shape

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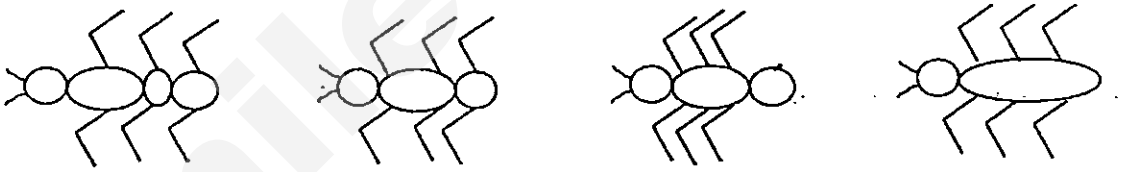
3. Jasmine set up Containers A, B and C as shown below for a week.



All 3 containers are sealed. What would happen to the grasshoppers after a week?

1) All the grasshoppers would die.
2) All the grasshoppers would still be alive.
3) Only the grasshoppers in container A and C will still be alive.
4) Only the grasshoppers in container B and C will still be alive.

4. Which one of the diagrams below correctly represents an insect?

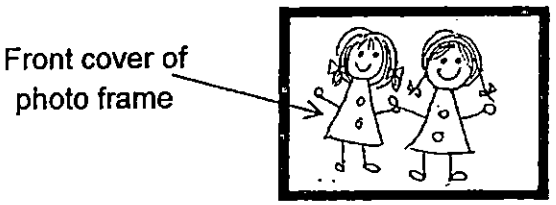


(1) (2) (3) (4)

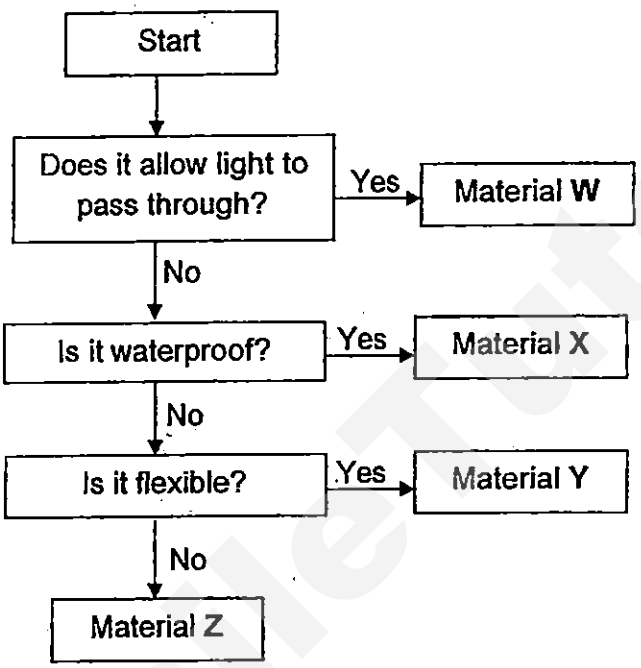
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5. Janice wanted to choose a material to make the front cover of her photo frame.



The flowchart below shows the properties of materials W, X, Y and Z.



Based on the flowchart, which material can definitely be used as the front cover of the photo frame?

1) W
2) X
3) Y
4) Z

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6. Susan divided the tray filled with earthworms into 2 equal parts. She then switched on the torchlight placed near Part X of the tray and observed where the earthworms went after some time.

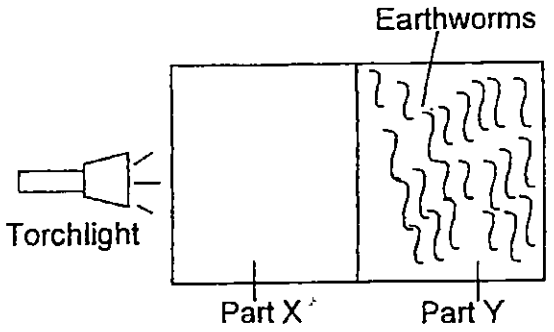


Diagram A

After sometime, she observed that all the earthworms went to Part Y of the tray as shown in Diagram A.

What can she conclude from her experiment?

1) Earthworms can reproduce.
2) Earthworms respond to changes.
3) Earthworms need water to stay alive.
4) Earthworms like to grow in bright places.

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7. Study the 2 groups of organisms below carefully.

Group X	Group Y
 Bread mould	 Hen
 Mushroom	 Cockroach

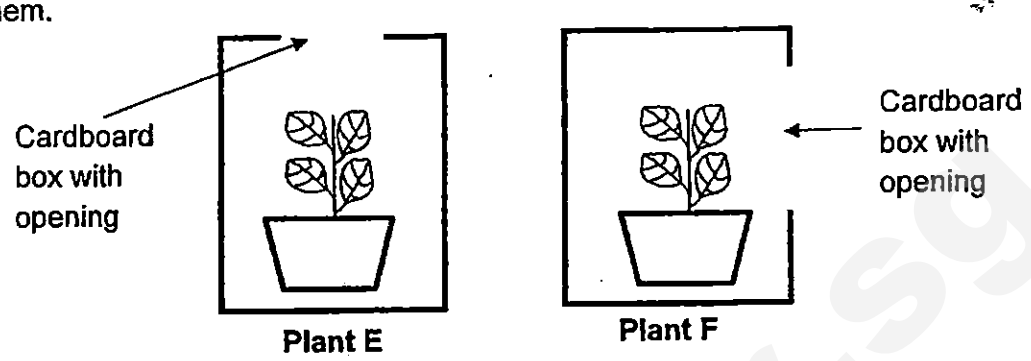
Whose statements about Groups X and Y is/are correct?

Alice	Group X and Y cannot make food.
Bill	Group X does not grow but Group Y grows.
Cara	Group X reproduces by spores but Group Y does not.
Daren	Group X can move from place to place but Group Y cannot.

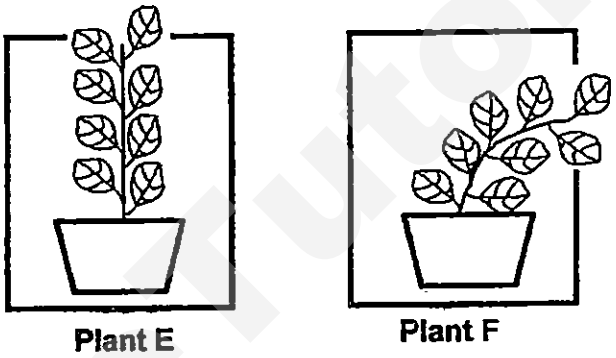
1) Cara only
2) Bill and Cara only
3) Alice and Cara only
4) Cara and Daren only

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8. Kelly grew 2 similar plants E and F in 2 cardboard boxes as shown below. The boxes had different openings. She placed the plants under the sun and watered them.



2 weeks later, she observed the 2 plants as shown below.

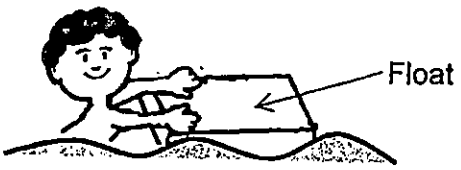


Based on her experiment, which one of the following statements is true?

1) Plants only need water to grow well.
2) Plants only need sunlight to grow well.
3) Plants moves towards the opening of the box because there is water.
4) Plants moves towards the opening of the box because there is light.

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9. Miss Lee wanted to find out if material P was suitable for making a swimming float as shown below.



Which of the questions below should Miss Lee choose to find out if Material P is suitable for making a float?

A: Is it water proof?

B: Does it sink in water?

C: Does it allow light to pass through?

1) A and B only
2) A and C only
3) B and C only
4) A, B and C

10. Which of the following statement(s) about plants is/are correct?

Alison: Flowering plants produce spores.

Ben: Flowering plants reproduce by seeds.

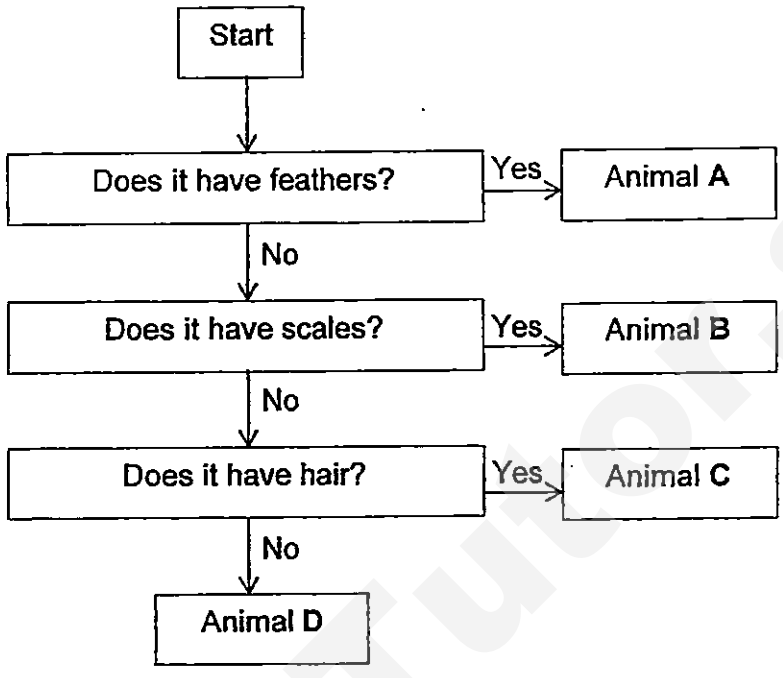
Ceris: Non-flowering plants do not bear fruits.

Danny: Non-flowering plants reproduce by seeds.

1) Ceris only
2) Ben and Ceris
3) Alison and Ceris
4) Ben and Danny

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11. Study the flowchart below carefully.



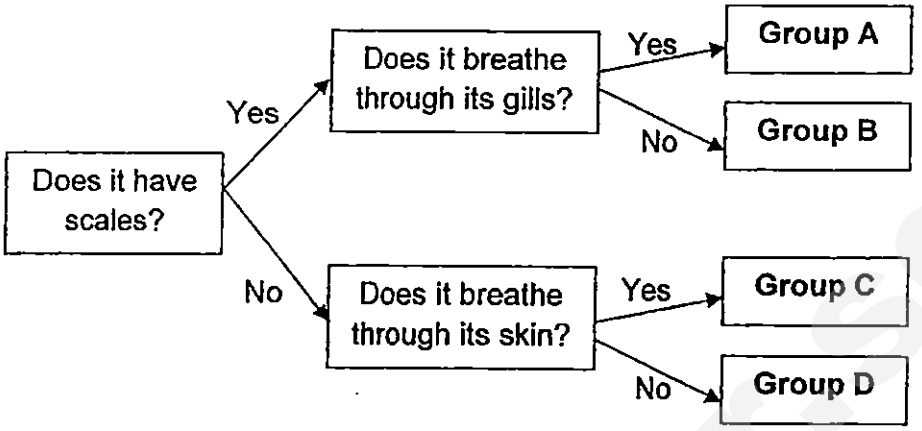
Based on the flowchart above, which animal, A, B, C or D best represents a mammal?

1) Animal A
2) Animal B
3) Animal C
4) Animal D

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12. Study the flowchart of animals in groups, A, B, C and D as shown below carefully.



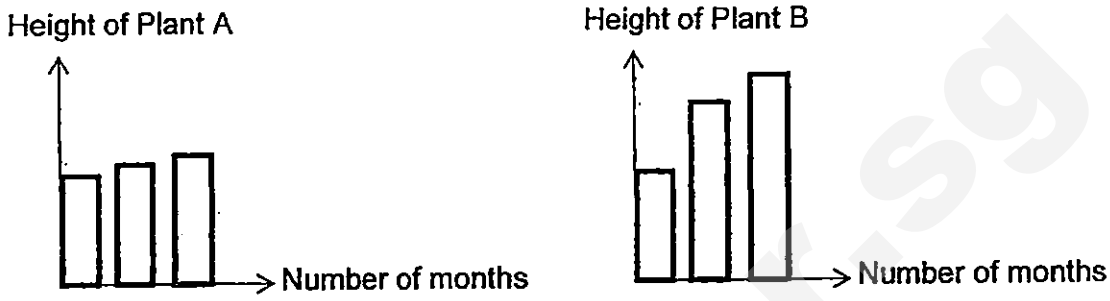
Based on the flowchart above, which of the following is correct?

1) Group A animals are mammals.
2) Group B animals are fish.
3) Group C animals are amphibians.
4) Group D animals are reptiles.

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13. The 2 graphs below shows the height of plants A and B over 3 months. The 2 plants were placed in the same location and watered regularly with the same amount of water.



Based on the graphs above, which one of the following statements is true?

1) Only Plant B can grow.
2) Plant A grew less than plant B.
3) Plant A received less water than plant B.
4) Plant A can make food but plant B cannot.

14. Marissa doesn't know any of the plants in the Science garden but her teacher asks her to look for a plant that matches the description given below. Which of the 2 following descriptions will be useful for Marissa to find the plants quickly?

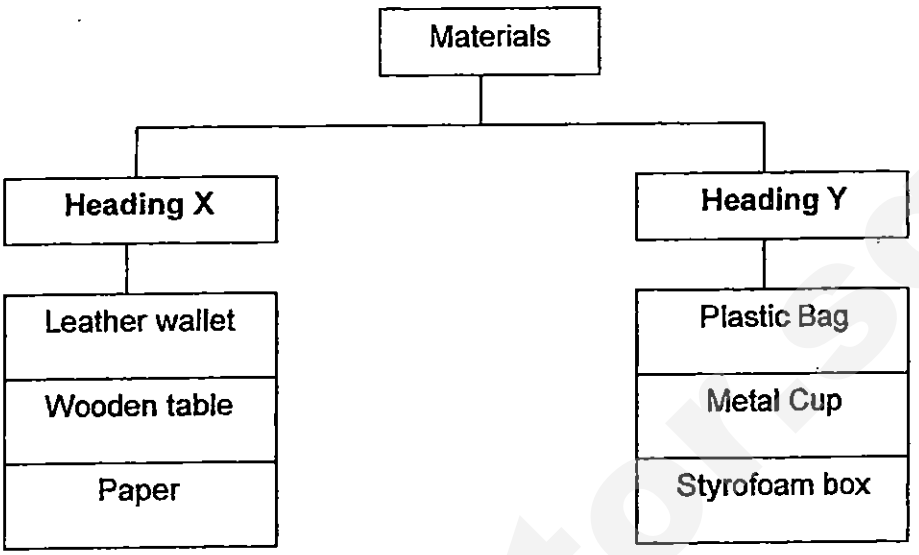
A: The roots grow deep into the soil.
B: It has big and hairy leaves.
C: It is shorter than 1 metre.
D: Its leaves are poisonous.

1) A and B only
2) B and C only
3) C and D only
4) B and D only

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15. Study the classification table below.



Which of the following shows correct headings for X and Y?

	Heading X	Heading Y
1)	Flexible	Not flexible
2)	Breakable	Unbreakable
3)	Made from plants	Made from animals
4)	Made from things once alive	Made from things never alive

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SINGAPORE CHINESE GIRLS' SCHOOL
FIRST SEMESTRAL ASSESSMENT 2015

SCIENCE

PRIMARY THREE

NAME: _____( ) DATE: _____

CLASS: PRIMARY 3SY / C / G / SE / P

Booklet A		30
Booklet B		20
Total		50

Parent's Signature

_____

BOOKLET B

7 questions

20 marks

Total time for Booklets A & B: 1 h

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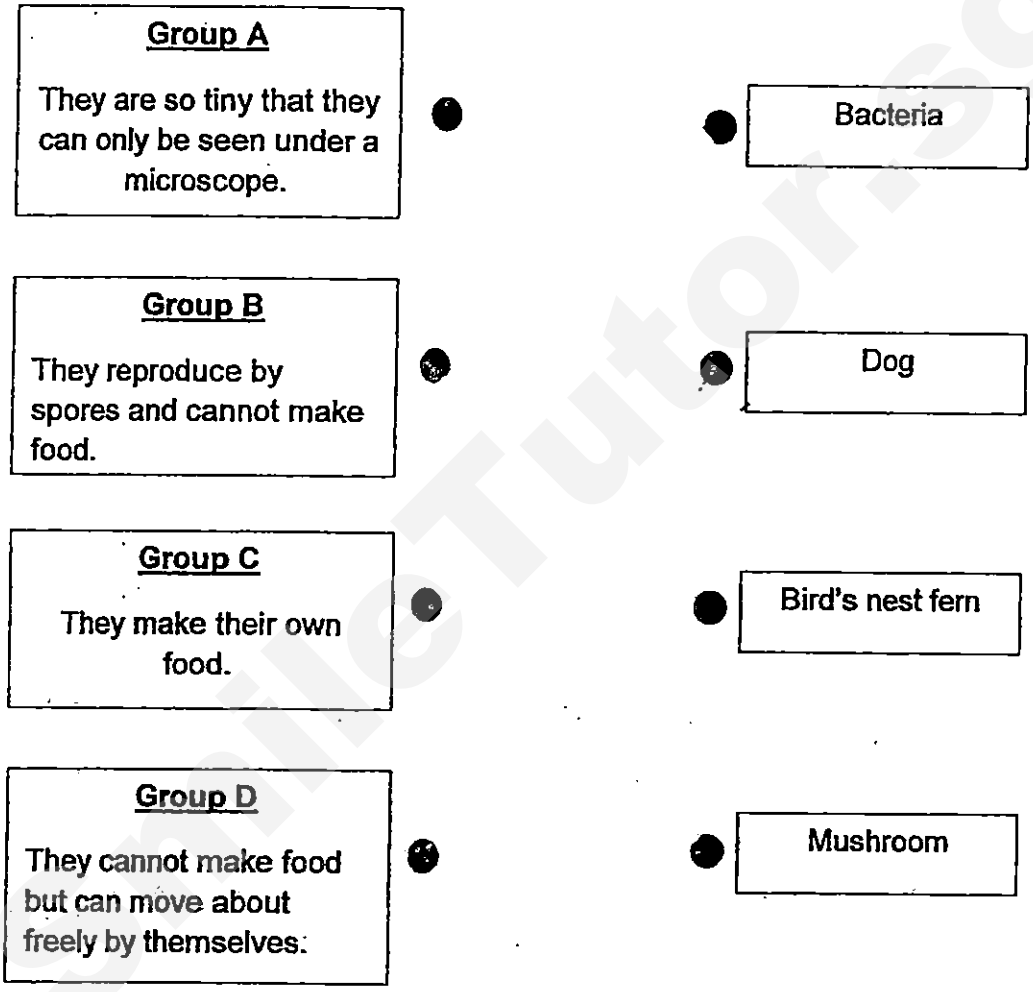
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Part II (20 marks)

Answer all the following questions.

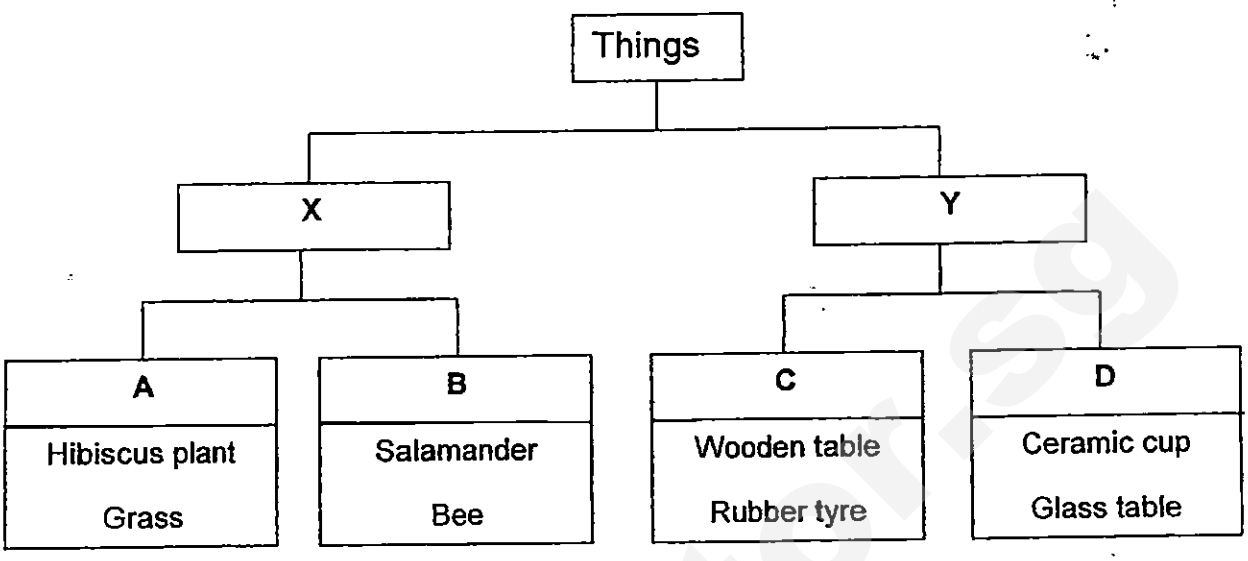
16. Use a ruler and a pencil to draw straight lines to match the living things to the correct characteristics of its group. (2m)



2

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17. Study the classification table below carefully.



a) Give suitable headings for Group X and Y. (1m)

X: _____

Y: _____

b) In which group, A and B, would you place a monkey? (1m)

_____

c) Put a cross (x) for wrong headings and put a tick (√) for the correct headings for Group C and D (2m)

	Group C	Group D	Tick (√) or Cross (X)
i)	Sink	Float	
ii)	Not easily breakable	Easily breakable	
iii)	Flexible	Not flexible	
iv)	Made from things once alive	Made from things never alive	

4

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18. Study cups S and T below carefully.
(Do not compare the size and shape of the cups.)



Cup S



Cup T

a) Based on what you can see only, state 1 similarity between Cup S and Cup T. (1m)

_____

b) Based on what you can see only, state 1 difference between Cup S and Cup T. (1m)

_____

19. Jane recorded the amount of water that each material A, B, C and D can absorbed in the table below.

Material	Amount of water absorbed
A	0 ml
B	25 ml
C	32 ml
D	50 ml

a) Which material is most suitable for making a raincoat?(1m)

_____

b) Explain your choice in (a). (1m)

_____

_____

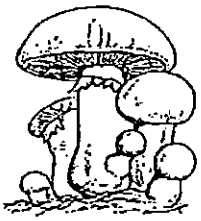
c) Which material is the best for making a towel?(1m)

_____

5

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20. Study the 2 diagrams below carefully.



Mushroom



Fern

a) Which group of living things does the mushroom belong to? (1m)

_____

b) Read the statements below about the mushroom and the fern carefully and put a tick (√) in the appropriate column to indicate if each statement is true or false. (3m)

	Statement	True	False
i)	Both are non-flowering plant.		
ii)	Only the fern can make food.		
iii)	The mushroom reproduces by spores but the fern reproduces by seeds.		

21. Lana has a glass bottle and a plastic bottle. Her mother asked her to bring the plastic bottle to school instead of the glass bottle.



Water bottle

Explain why Lana's mother asked her to bring the plastic bottle instead of the glass bottle. (1m)

_____

5

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22. Study the table below carefully.

Characteristics	Animal A	Animal B	Animal C	Animal D
Can it fly?	Yes	Yes		
Does it have hair?			Yes	Yes
Does it lay eggs?	Yes	Yes	Yes	
Does it have 3 body parts?		Yes		

a) Based on the above table, describe Animal B (2m)

_____

_____

b) Based on the above table, state 1 difference between Animal C and Animal D. (1m)

_____

c) Which animal, A, B, C or D, most likely represents a bird? (1m)

_____

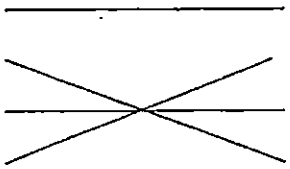
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P3 Science SA1 2015 Model Answers

Section A

1) 1	6) 2	11) 3
2) 2	7) 3	12) 3
3) 1	8) 4	13) 2
4) 3	9) 1	14) 2
5) 1	10) 2	15) 4

Section B

<table>
<tr><td>Qn. No.</td><td>Answers</td></tr>
<tr><td>16</td><td></td></tr>
<tr><td>17a</td><td>X: Living Things
Y: Non-living things</td></tr>
<tr><td>17b</td><td>B</td></tr>
<tr><td>17c</td><td>
<table>
<tr><th></th><th>Group C</th><th>Group D</th><th>Tick (✓)</th></tr>
<tr><td>i)</td><td>Float</td><td>Sink</td><td>x</td></tr>
<tr><td>ii)</td><td>Not easily breakable</td><td>Easily Breakable</td><td>✓</td></tr>
<tr><td>iii)</td><td>Flexible</td><td>Not flexible</td><td>x</td></tr>
<tr><td>iv)</td><td>Made from things once alive</td><td>Made from things never alive</td><td>✓</td></tr>
</table>
</td></tr>
<tr><td>18a</td><td>Both have a handle.</td></tr>
<tr><td>18b</td><td>Cup S has dots but Cup T has stripes.</td></tr>
<tr><td>19a</td><td>Material A</td></tr>
<tr><td>19b</td><td>It does not absorb water.</td></tr>
<tr><td>19c</td><td>Material D</td></tr>
<tr><td>20a</td><td>Fungi</td></tr>
<tr><td>20b</td><td>
<table>
<tr><th></th><th>Statement</th><th>True</th><th>False</th></tr>
<tr><td>i)</td><td>Both are non-flowering plant.</td><td></td><td>✓</td></tr>
<tr><td>ii)</td><td>Only the fern can make food.</td><td>✓</td><td></td></tr>
<tr><td>iii)</td><td>The mushroom reproduces by spores but the fern reproduces by seeds.</td><td></td><td>✓</td></tr>
</table>
</td></tr>
<tr><td>21</td><td>The plastic bottle will not break easily but the glass bottle will break easily.</td></tr>
<tr><td>22a</td><td>Animal B can fly, lay eggs and has 3 body parts but does not have hair.</td></tr>
<tr><td>22b</td><td>Animal C lay eggs but Animal D does not.</td></tr>
<tr><td>22c</td><td>A</td></tr>
</table>

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PRIMARY 3 MID-YEAR EXAMINATION 2015

Name : _____ ( ) Date: 15 May 2015

Class : Primary 3 ( ) Time: 8.00 a.m. to 9.00 a.m.

Parent's Signature : _____ Marks: _____ / 30

SCIENCE
BOOKLET A

INSTRUCTIONS TO CANDIDATES

Write your name, register number and class.

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

50

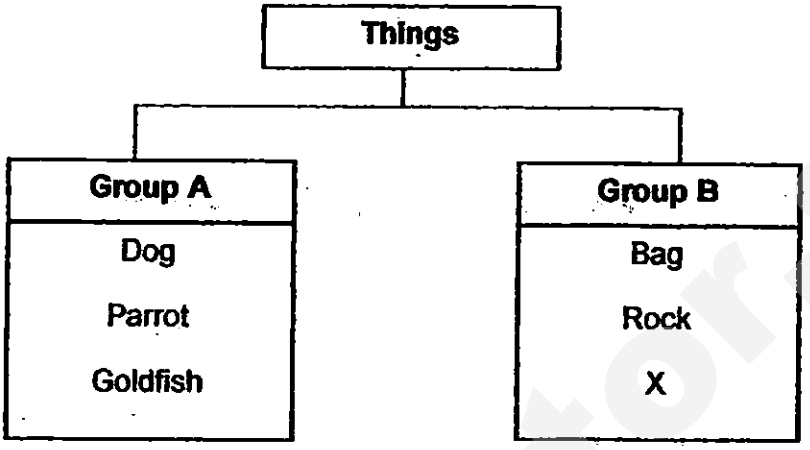
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Section A (15 x 2 marks)

For each question, 1 to 15, choose the most suitable answer and shade its corresponding oval (1, 2, 3 or 4) in the optical answer sheet.

1. Study the classification chart below.

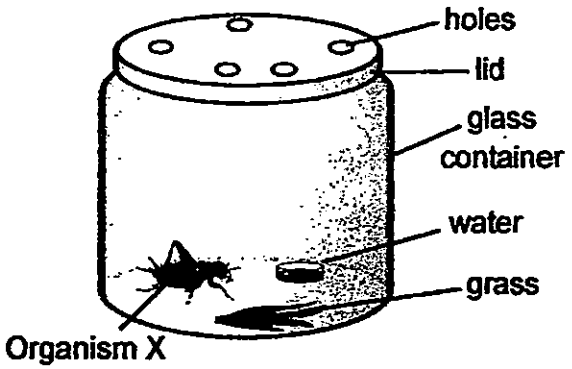


Which one of the following identifies Group A, Group B and X correctly?

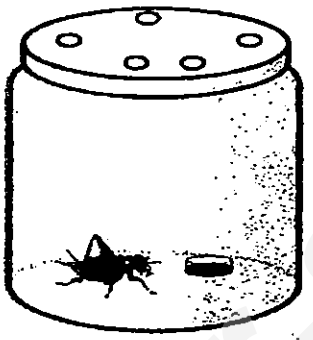
	Group A	Group B	X
(1)	Can grow	Cannot grow	Kingfisher
(2)	Has hair	Does not have hair	Car
(3)	Need air, food and water	Does not need air, food and water	Chicken
(4)	Can reproduce	Cannot reproduce	Fan

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2. John conducts an experiment to find out if Organism X needs water to stay alive. He prepares the following set-ups as shown below.



Set-up A



Set-up B



Set-up C



Set-up D

Which of the following set-ups should he use for his experiment?

(1) B and D
(2) A and B
(3) A and C
(4) C and D

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3. Mark wants to group the plants below according to the way they reproduce. Which of the following plants does not belong to the same group?



Hibiscus plant
(1)



Apple tree
(2)



Lily plant
(3)



Staghorn fern
(4)

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4. The table below shows the characteristics of plants, P, Q, and R. A tick (✓) shows that the plant has the characteristic.

Plant	P	Q	R
Has flowers	✓	✓	✓
Has edible fruits		✓	
Grows on land	✓	✓	

Which one of the following identifies these plants correctly?

	P	Q	R
(1)	Papaya	Water Lily	Pong Pong
(2)	Pong Pong	Papaya	Water Lily
(3)	Papaya	Pong Pong	Water Lily
(4)	Pong Pong	Water Lily	Papaya

5. Study the diagrams below.



Plant A



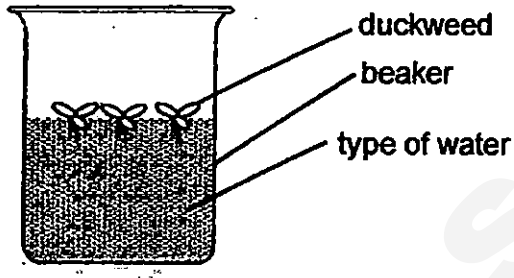
Plant B

Based only on the diagrams above, what can we conclude about Plant A and B ?

(1) Plant A has no roots but Plant B has roots.
(2) Plant A has a weak stem but Plant B has a strong stem.
(3) Plant A produces edible fruits but B produces inedible fruits.
(4) Plant A is a flowering plant but Plant B is a non-flowering plant.

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6. Henry wanted to conduct an experiment to find out which type of water is best for the growth of duckweeds. He prepared 4 similar set-ups like the one shown below.



His results are recorded in the table below.

Type of water	Number of duckweeds on Day 1	Number of duckweeds on Day 5
Tap water	3	99
Pool water	3	24
Pond water	3	243
Boiled water	3	30

Which type of water do duckweeds grow best in?

(1) Tap water

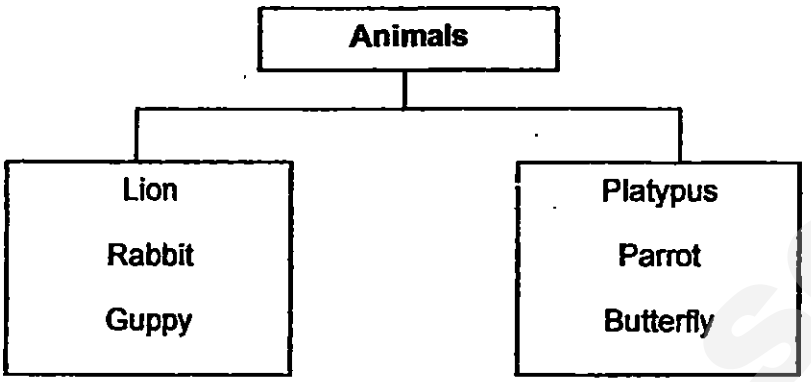
(2) Pool water

(3) Pond water

(4) Boiled water

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7. Study the classification chart below.



Which one of the following shows how the animals are classified?

(1) where they live
(2) how they breathe
(3) their body covering
(4) how they reproduce

8. Study the table below.

Group A	Group B	Group C	Group D
Goldfish	Bat	Ant	Frog
Tilapia	Monkey	Grasshopper	Salamander
Dolphin	Deer	Spider	Mudskipper

Which one of the following shows the groups that consist of animals which are **wrongly** classified in the same group?

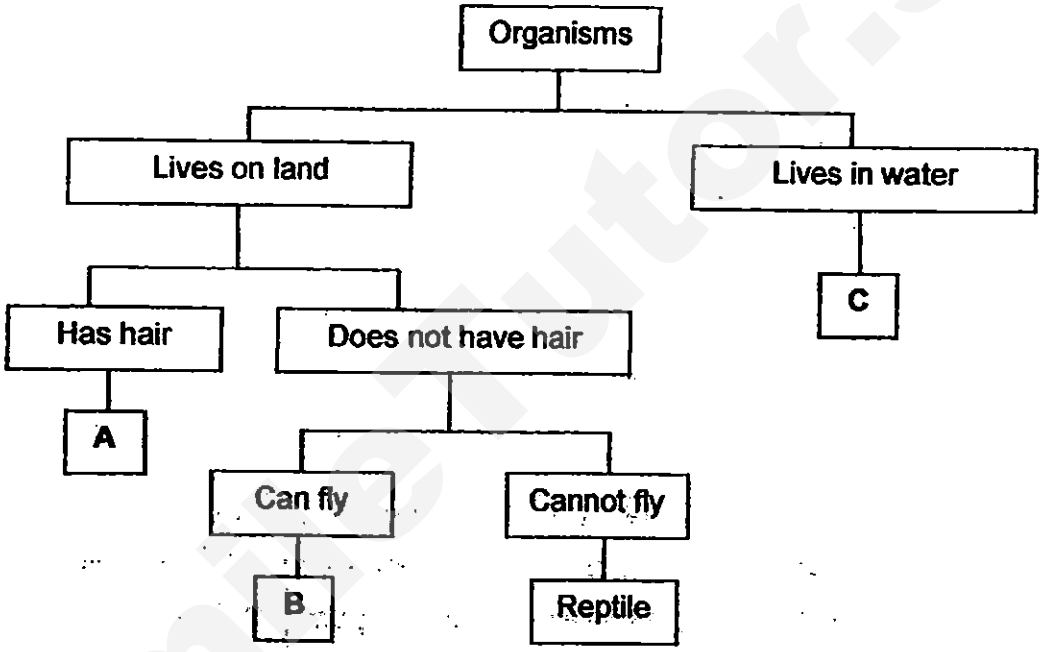
(1) A and C only
(2) B and D only
(3) B, C and D only
(4) A, C and D only

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9. Which of the following statements is true?

1) Scorpions are insects.
2) All animals that live in water are fishes.
3) Both reptiles and amphibians breathe through their skin.
4) Mammals are the only animal group that suckle their young.

10. Study the flowchart below.



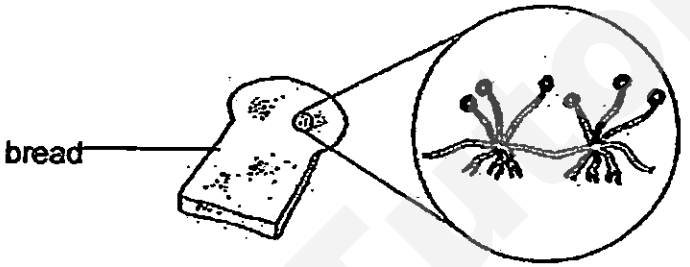
Which of the following correctly identifies A, B, and C ?

	A	B	C
1)	Mammal	Insect	Bird
2)	Bird	Fish	Insect
3)	Mammal	Bird	Fish
4)	Insect	Mammal	Fish

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11. The table below shows the characteristics of organisms, A, B, C and D. A tick (✓) shows that the organism has the characteristic.

Organism	Makes its own food	Can only be seen under the microscope	Reproduces by spores
A	✓		
B		✓	✓
C	✓		✓
D		✓	



magnified section

Which organism is shown in the magnified section of the diagram above?

1) Organism A
2) Organism B
3) Organism C
4) Organism D

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12. Some students were discussing about bacteria and their characteristics.

Mark : All bacteria are harmful.
Jane : Bacteria are microorganisms.
Rose : Bacteria can be found everywhere including in our bodies.
Dean : Bacteria reproduce by spores.

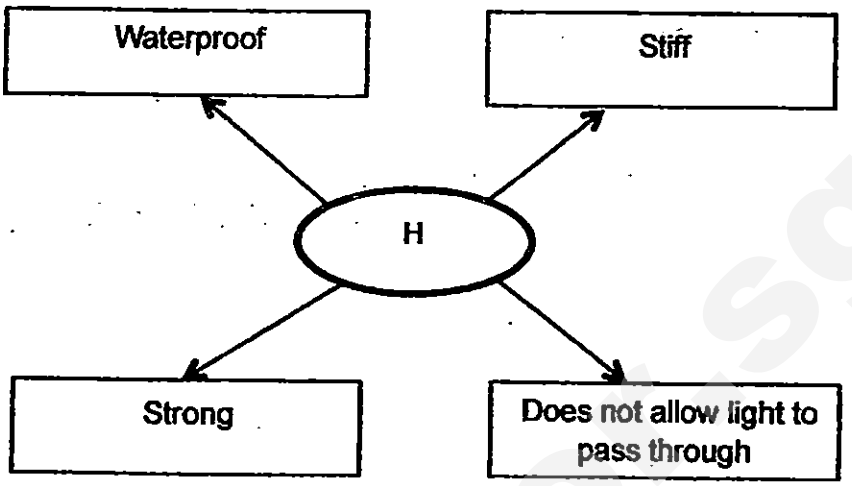
Who made the correct statement?

1) Jane and Rose
2) Jane and Dean
3) Rose and Dean
4) Mark, Rose and Dean

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13. Study the diagram below which shows some characteristics of material H.



What can H be?

A : Clear glass

B : Ceramic

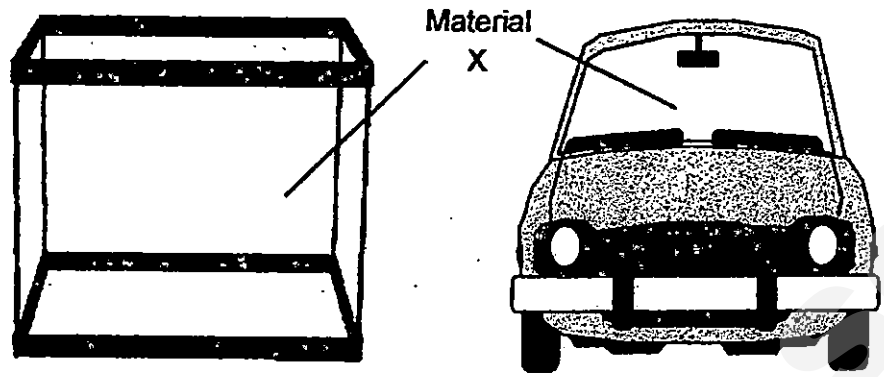
C : Fabric

D : Metal

1) B and D only
2) A and C only
3) B and C only
4) A, B and D only

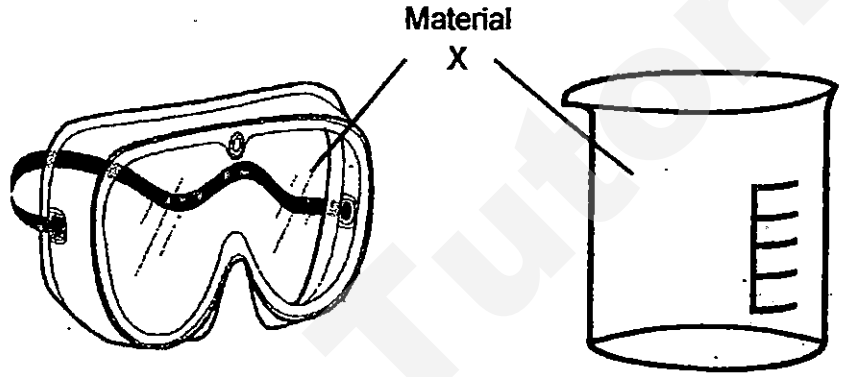
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14. Study the objects below.



Fish tank

Car



Goggles

Beaker

Which of the following properties must Material X have to make the objects above?

A : Flexible

B : Allows light to pass through

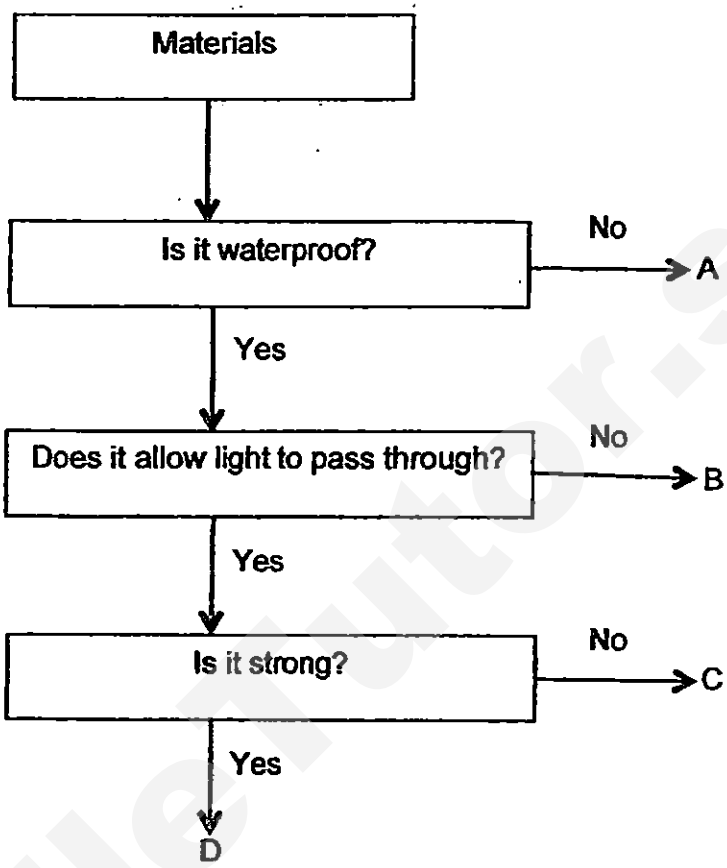
C : Floats on water

D : Strong

1) A and C only
2) B and D only
3) A and B only
4) B, C and D only

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15. Study the flowchart below.



Which of the following objects is correctly matched to the material it is made of?

	Object	Material
1)	Frying pan	B
2)	Car tyre	A
3)	Pupil's desk	C
4)	Cardboard box	D

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PRIMARY 3 MID-YEAR EXAMINATION 2015

Name : _____ ( ) Date: 15 May 2015

Class : Primary 3 ( ) Time: 8.00 a.m. to 9.00 a.m.

Parent's Signature : _____ Marks: _____ / 20

SCIENCE
BOOKLET B

INSTRUCTIONS TO CANDIDATES

Write your name, register number and class.

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

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Section B (20 marks)

For the questions, 16 to 25, write your answers in the spaces provided.

16. Study the diagram below.

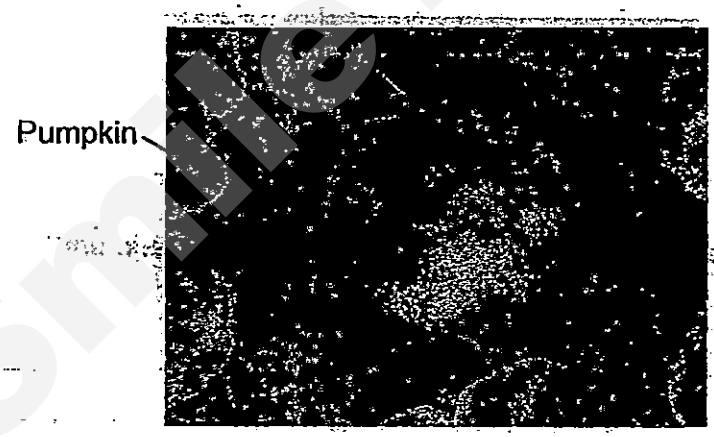
Things	
Group A	**Group B**
Water	Key
Yeast	Pencil
Ostrich	Umbrella

(a) Which item is classified wrongly? Explain your answer. (1m)

_____

_____

The diagram below shows a pumpkin plant.



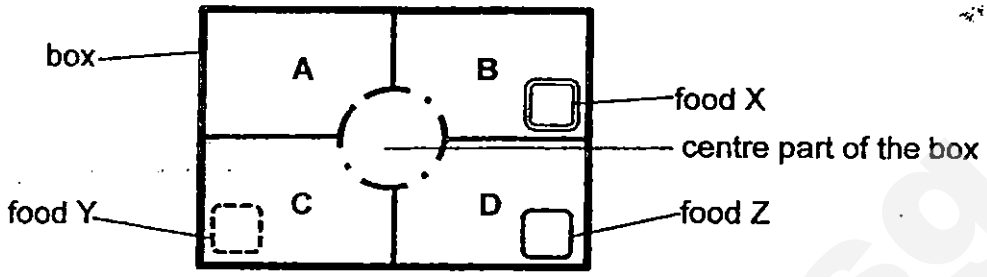
(b) Which group should the pumpkin be placed in? (1m)

_____

_____

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17. Ellen conducted an experiment to find out which type of food X, Y or Z, attracts the most number of ants. The diagram below shows the top view of the set-up that she prepared.



She released 50 ants in the centre part of the box and recorded the number of ants found in parts, A, B, C, and D after 1 hour. Her results are shown below.

Part of box	Type of food found in that part	Number of ants found in that part
A	No food	0
B	X	10
C	Y	25
D	Z	15

(a) What characteristic of living thing is shown in this experiment? (1m)

_____

_____

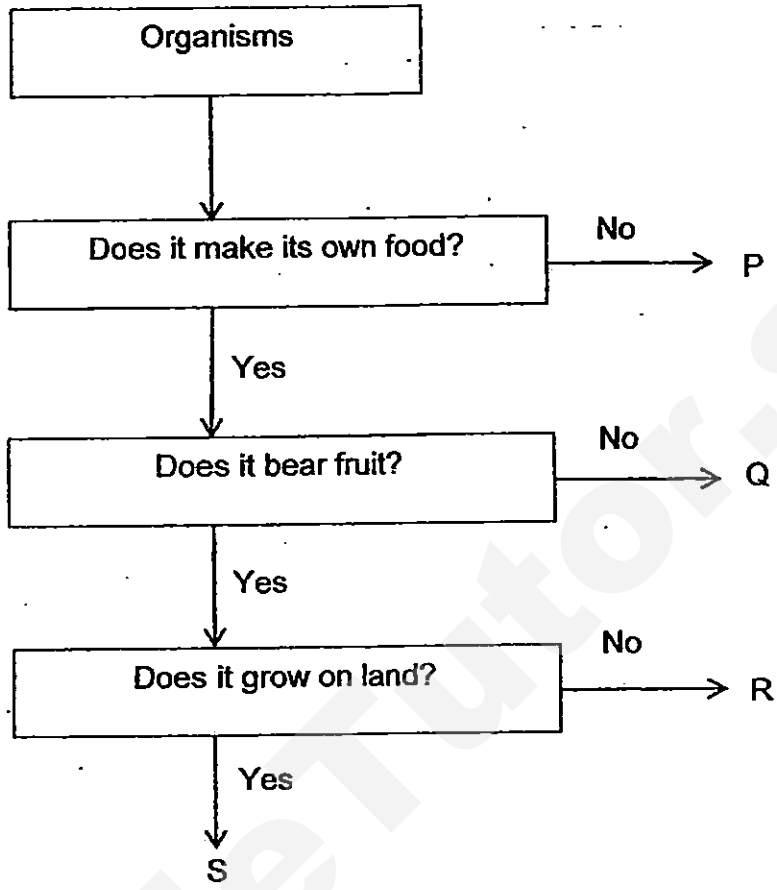
(b) Which type of food should Ellen use if she wants to attract the most number of ants? Explain your answer. (1m)

_____

_____

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18. Study the flowchart below.

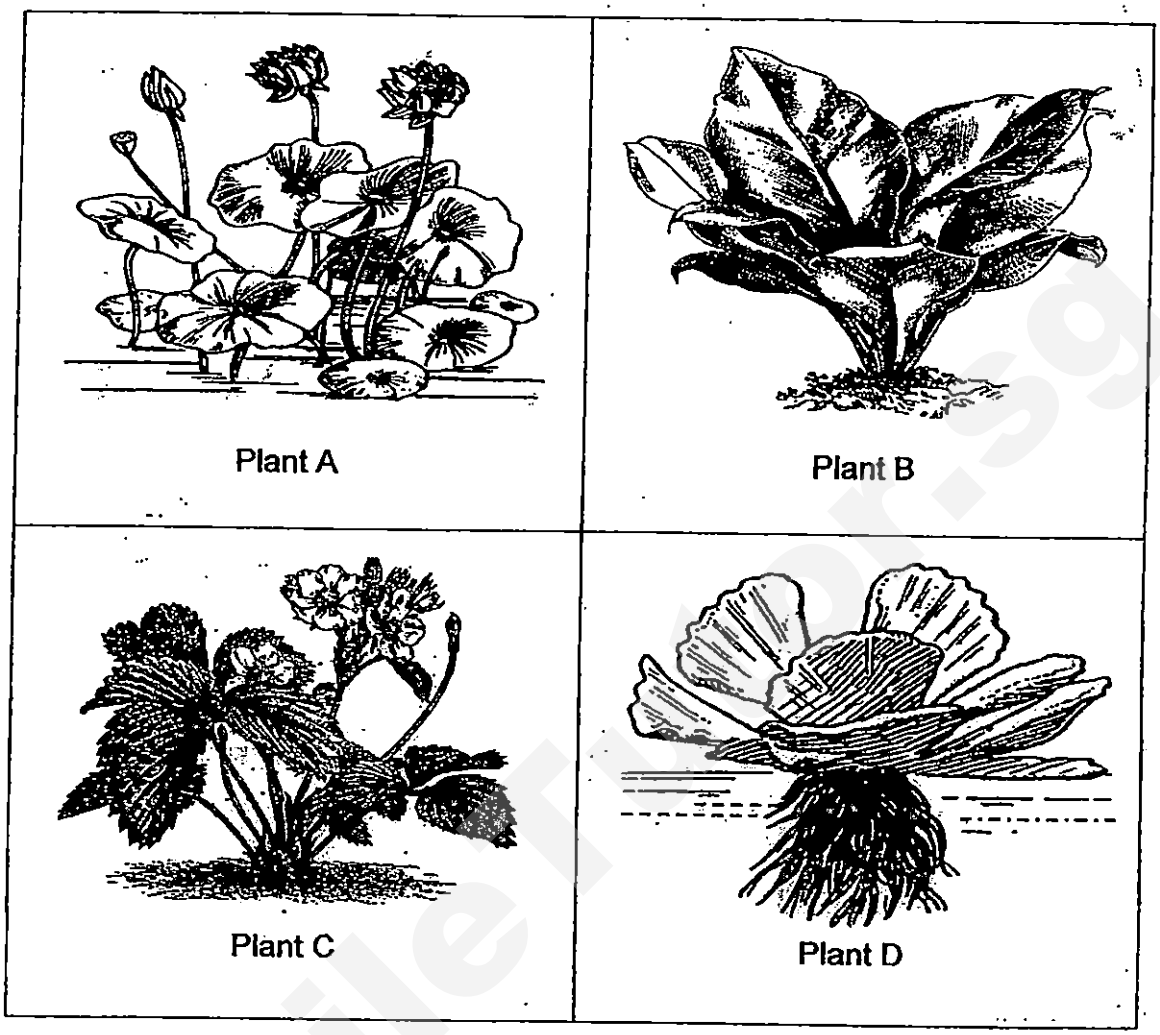


(a) Based on the flowchart, state all the characteristics of Q. (1m)

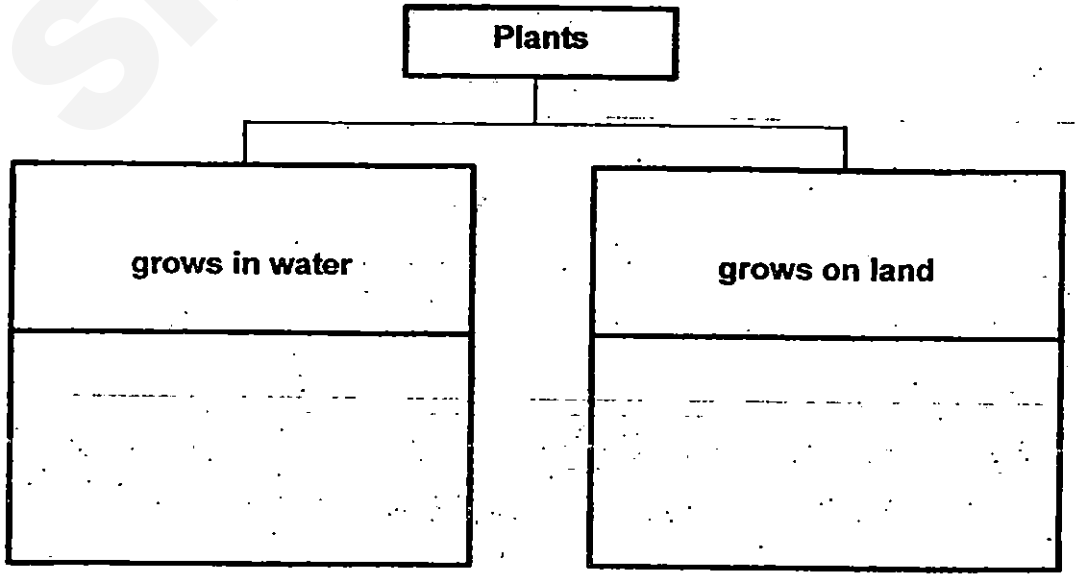
(b) Which letter, P, Q, R or S, can represent a mango tree? Explain your answer. (1m)

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19. The pictures below show four plants, A, B, C and D.

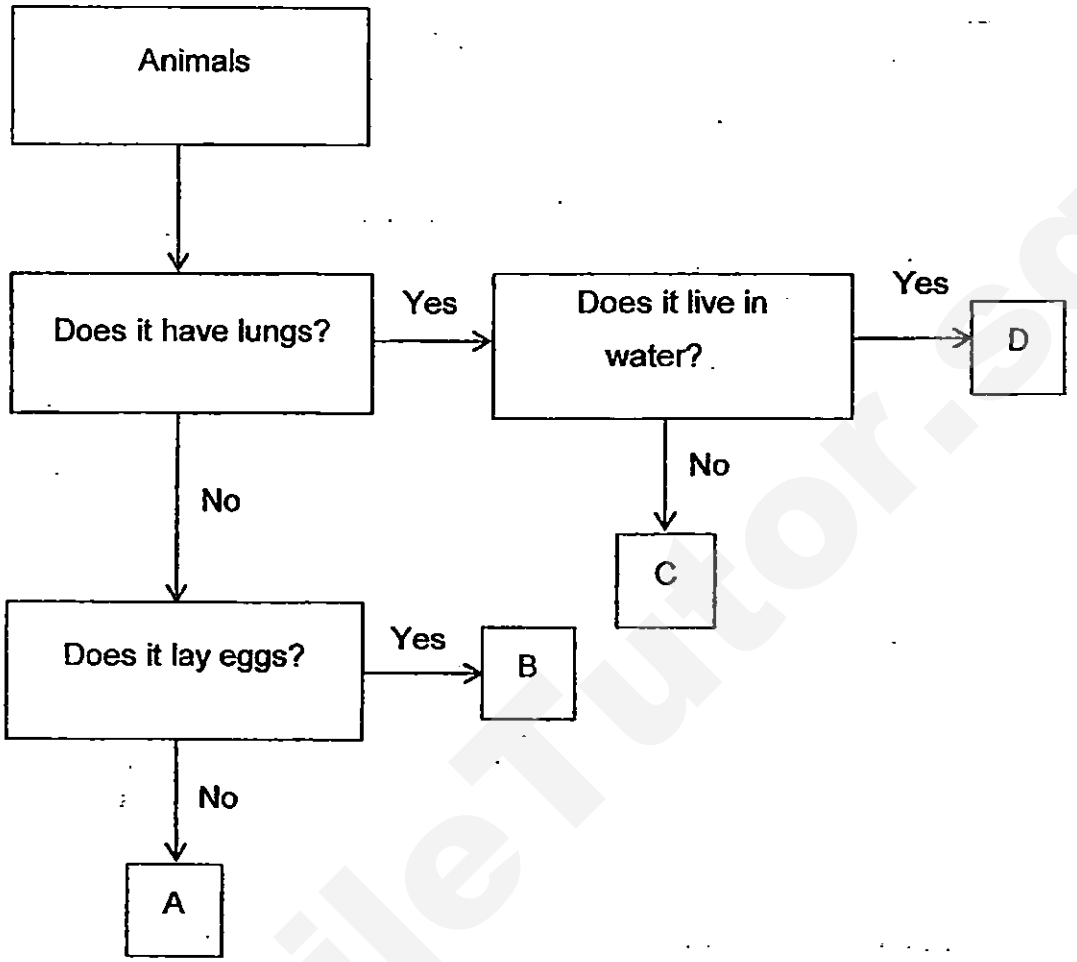


a) Classify the plants by completing the classification chart according to the heading below, using letters A, B, C and D. (2m)



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20. Tom has to classify four animals using the flowchart given below.



Identify the animals and write the corresponding letter, A, B, C or D, in the blanks provided. (2m)

(a) Housefly :_____

(b) Whale :_____

(c) Sparrow :_____

(d) Guppy :_____

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21. Study the diagrams below.



Animal X



Animal Y

(a) Based on the diagram, state an observable difference between Animal X and Animal Y. Do not mention size and shape. (1m)

_____

_____

(b) What is the outer body covering of Animal Y? (1m)

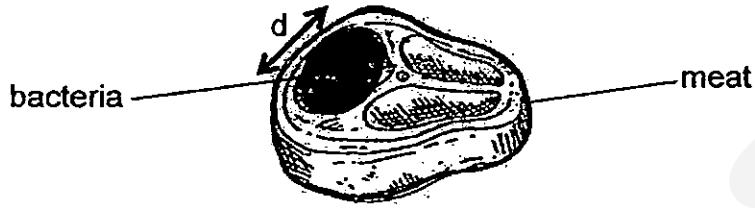
_____

_____

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22. Dean wanted to find out how the different methods of storing meat affect the growth of bacteria. He placed 3 similar pieces of meat on a plate and stored the meat differently. He observed the meat after 5 days and measured the diameter (d) of bacteria growth. The table below shows the results of the experiment.



Method of storing	Temperature (°C) of surroundings	Bacterial growth on the meat (mm)
On the table	28	30
Fridge	0	17
Under the sun	35	53

(a) Which is the safest method of storing the meat? Explain your answer. (1m)

_____

_____

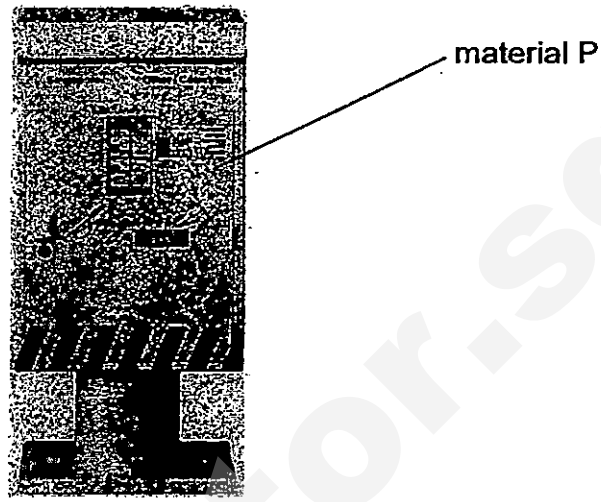
(b) Based on the table above, what is the relationship between the temperature of the surroundings (0°C to 35°C) and the amount of bacterial growth? (1m)

_____

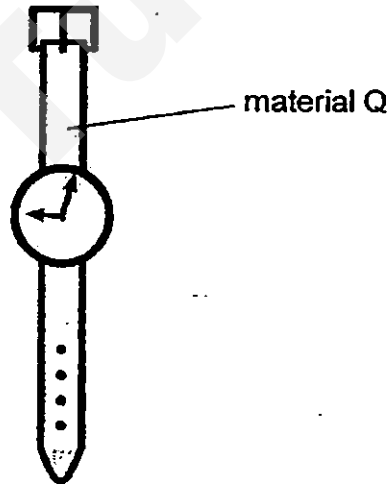
_____

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23. Study the diagrams below. Material P and Q are used to make the different parts of the mailbox and watch respectively.



Mailbox



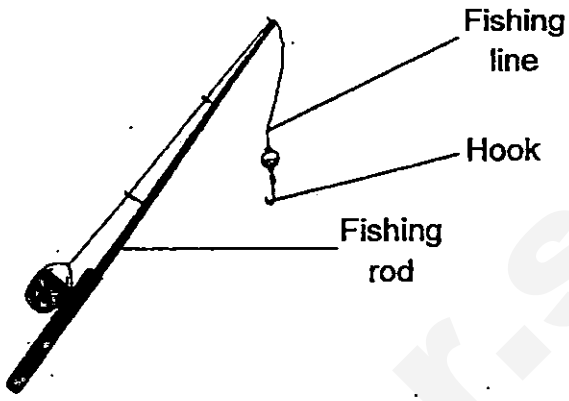
Watch

Tick (✓) the boxes in the table below to show the properties that Material P and Q has. (2m)

Properties	Material P	Material Q
It allows light to pass through		
It is strong		
It is waterproof		
It is flexible		

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24. Thomas wanted to find out which material makes a good fishing line. A fishing line is a line used to catch fish. He placed 3 similar length fishing lines made of different material onto the fishing rod. He recorded the mass hung before the fishing line snapped.



The results are shown in the table below.

Material used to make the fishing line	Mass hung on the fishing line just before it snapped (kg)
A	10
B	15
C	20

(a) Which material(s) would be able to hold a mass of 12 kg? (1m)

_____

_____

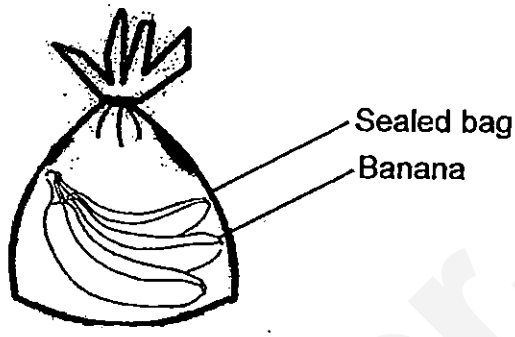
(b) Other than being waterproof, which two other properties must the material used to make the fishing rod have? (1m)

(i) _____

(ii) _____

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25. Lisa conducted an experiment to find out how the material used to package bananas affects their ripening. She placed 3 similar bunches of bananas into 3 similar sized bags made of different materials and sealed them. She observed the bananas for 2 weeks. The results are shown in the table below.



Material of package	Days taken for bananas to ripen
Paper bag	3
Plastic bag	7
Cloth bag	5

(a) Which material should Lisa use to package the bananas if she would like to eat the bananas as soon as possible? Explain your answer.

(1m)

_____

_____

It is a rainy day. Lisa wants to bring a bunch of bananas to her mother without getting the fruits wet.

(b) Which material of package should she use? Explain your answer. (1m)

_____

_____

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : TAO NAN SCHOOL
SUBJECT : SCIENCE
TERM : MID-YEAR EXAMINATION

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
4	3	4	2	2	3	4	4	4	3
Q 11	Q 12	Q 13	Q 14	Q 15					
2	1	1	2	1					

Q16. a) Water is classified wrongly. It is a non-living thing.
b) The pumpkin should be placed in Group A.

Q17. a) Living things need food to stay alive.
b) She should use Y as it attracts the most number of ants.

Q18. a) It makes its own food and does not bear fruits.
b) S can represent a mango tree. A mango tree makes it own food, bear fruits and grows on land.

Q19. *Under grows in water:* A, D *Under grows on land:* B, C

Q20. a) B b) D c) C d) A

Q21. a) Animal Y have wings while Animal X does not have wings.
b) The outer covering of Animal Y is feathers.

Q22. a) Fridge. The meat has the least amount of bacterial growth.
b) The higher temperature, the more bacterial growth.

Q23. *Material P:* It is strong. It is waterproof.
Material Q: It is strong. It is waterproof. It is flexible.

Q24. a) Material B and C.
b) i) Flexible ii) Strong

Q25. a) Paper Bag. The bananas placed in the paper bag takes the shortest time to ripen.
b) Plastic Bag, It is waterproof.

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Temasek Primary School

Semestral Assessment 1

Primary Three

2015

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SCIENCE
(Booklet A)

Name: _____

Class: Primary 3 _____

Date: 12 May 2015

Parent's Signature: _____

60 Marks

Total Time for Booklet A and B: 1h 45 min

INSTRUCTIONS TO CANDIDATES

1. **Do not open this booklet until you are told to do so.**
2. **Follow all instructions carefully.**
3. **Answer all questions.**
4. **Shade your answers in the Optical Answer Sheet (OAS) provided.**

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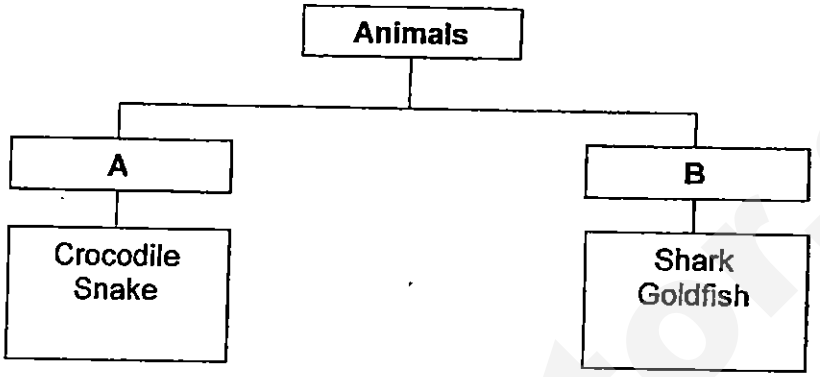
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For each question from 1 to 30, four options are given. One of them is the correct answer. Shade your choice (1, 2, 3, or 4). Shade your answer on the Optical Answer Sheet.

(60 marks)

---

1 The following animals have been classified under two groups.



Which of the following represent the correct headings for A and B?

	A	B
(1)	Animal-eater	Plant-eater
(2)	Have scales	Have hair
(3)	Reptiles	Fish
(4)	Lays eggs	Gives birth to their young alive

2 Which one of the following is **not** a response made by living things?

(1) A baby cries when he is hungry.

(2) The leaves of a tree sway in the wind.

(3) A cat runs away when you go near to it.

(4) A plant grows towards the sunlight.

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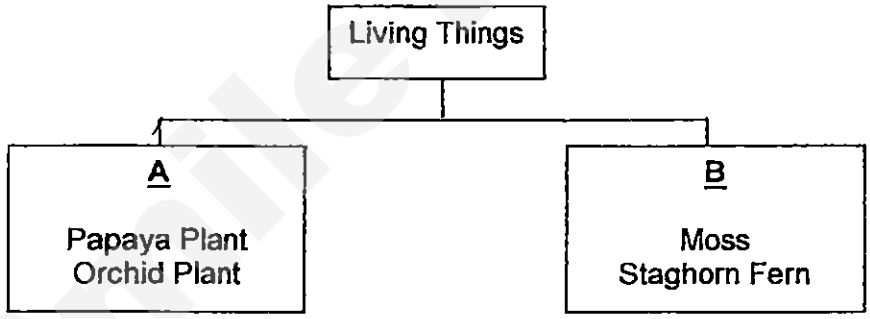
3 Jasmine describes an animal with the following statements.

- It lays eggs.
- It can live on land and in water.
- It breathes through its moist skin when it is underwater.

Which one of the following animals is being described?

(1) Cockroach
(2) Clownfish
(3) Penguin
(4) Salamander

4 The classification chart below shows how some living things are classified.



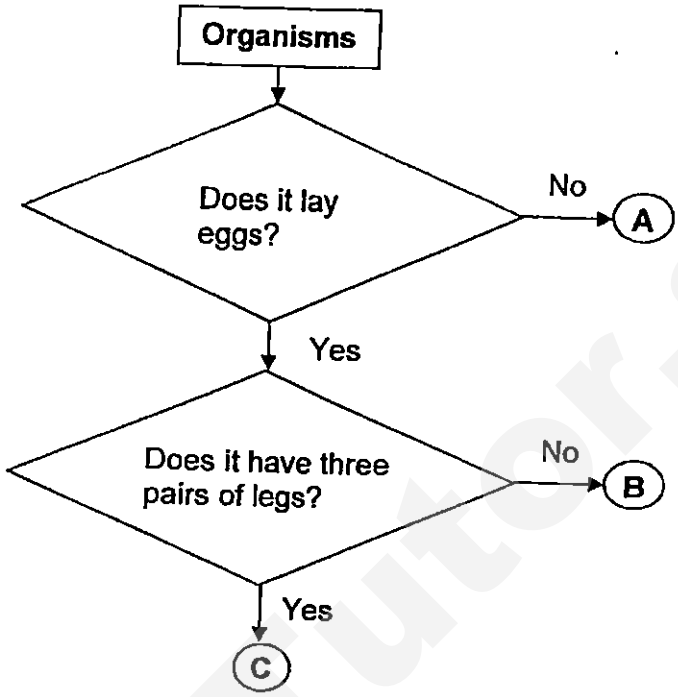
Based on the classification chart above, which of the following represent the correct headings for A and B?

	A	B
(1)	Plants	Fungi
(2)	Plants	Microorganisms
(3)	Non-flowering Plants	Flowering Plants
(4)	Flowering Plants	Non-flowering Plants

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5 Study the flow chart below.



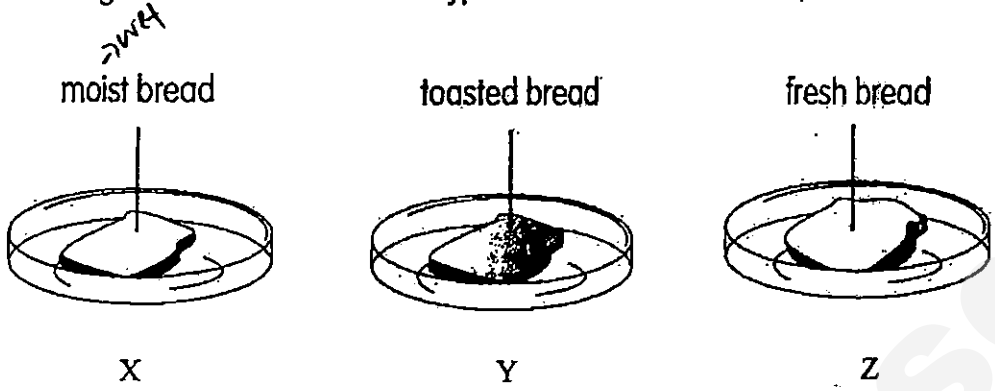
Which of the following animals is B **most** likely to be?

(1) Spider
(2) Beetle
(3) Mosquito
(4) Cockroach

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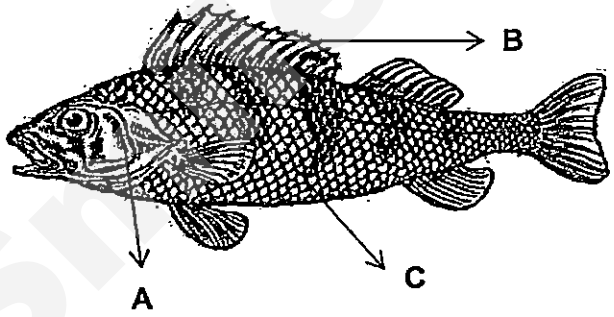
6 The diagram below shows three types of bread on dishes X, Y and Z.



Arrange the dishes X, Y and Z in order, beginning with the dish in which bread mould would most likely appear **first**.

(1) X, Y, Z
(2) Y, X, Z
(3) Z, X, Y
(4) X, Z, Y

7 Study the diagram below carefully.



Which of the following identifies the parts A, B and C correctly?

	A	B	C
(1)	Fin	Gill cover	Skin
(2)	Gill cover	Fin	Scales
(3)	Fin	Scales	Skin
(4)	Gill cover	Fin	Spots

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8 Which of the following statements about bacteria are **true**?

A. Bacteria can be found only on plants.

B. Bacteria can make its own food.

C. Bacteria are microorganisms.

D. Bacteria respond to changes.

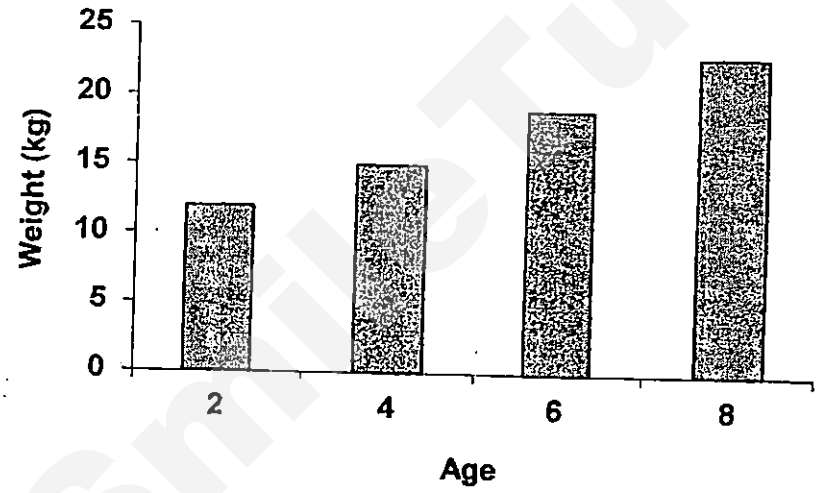
(1) A and C only

(2) B and D only

(3) C and D only

(4) A, C and D

9 The bar graph below shows some information about Dylan.



What can you conclude from the information given in the bar graph?

(1) Living things grow.

(2) Living things reproduce.

(3) Living things respond to changes.

(4) Living things needs air, food and water to survive.

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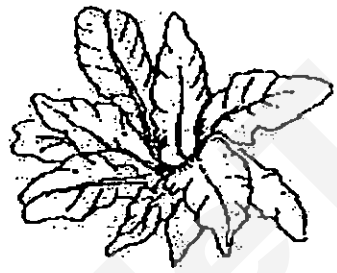
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10 Sarah saw Animal X in the garden. Which of the following should she do to find out if Animal X is an insect?

A: Check if it flies.
B: Check if it has wings.
C: Count the number of legs.
D: Count the number of body parts.

(1) A and B only
(2) B and C only
(3) C and D only
(4) A and D only

11 Which one of the following statements about a bird nest fern is **true**?



Bird's Nest Fern

A. It makes its own food.
B. It reproduces by seeds.
C. It is a non-flowering plant.

(1) A only
(2) A and C
(3) B and C
(4) A, B and C

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12 Which one of the following animals reproduces differently from the others?

(1)



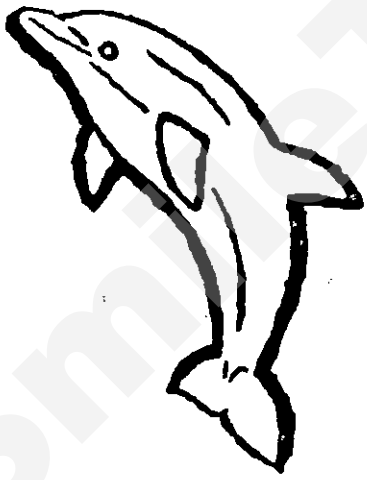
Seal

(2)



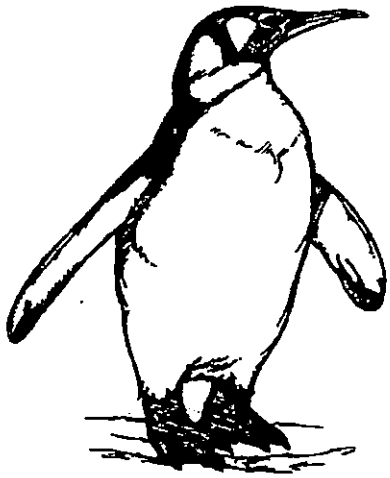
Bat

(3)



Dolphin

(4)

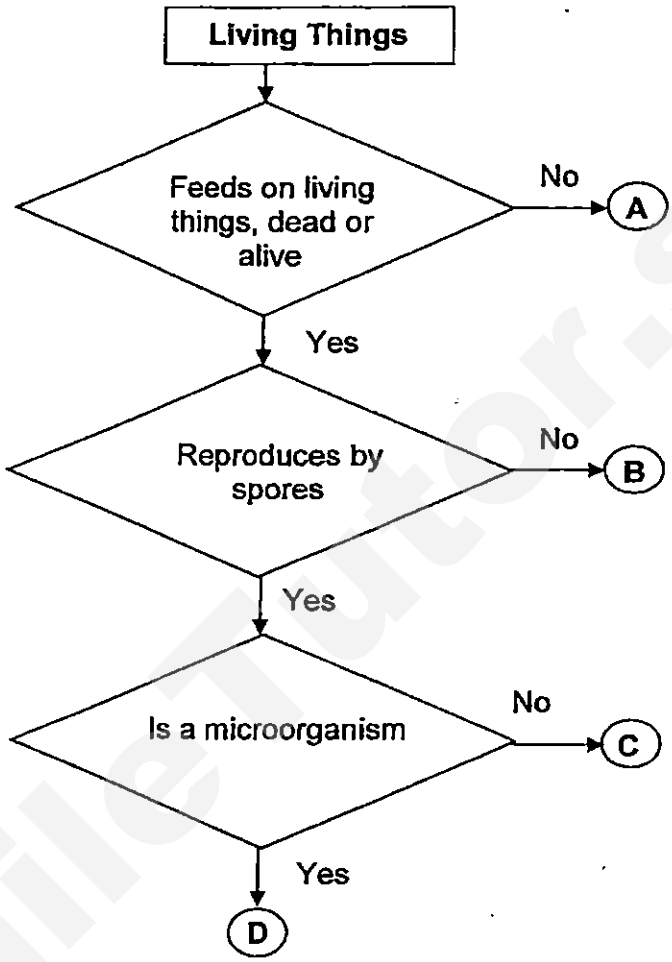


Penguin

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13 Study the flow chart below.



Which one of the following letters, A, B, C, or D, best represents the mushroom?

(1) A
(2) B
(3) C
(4) D

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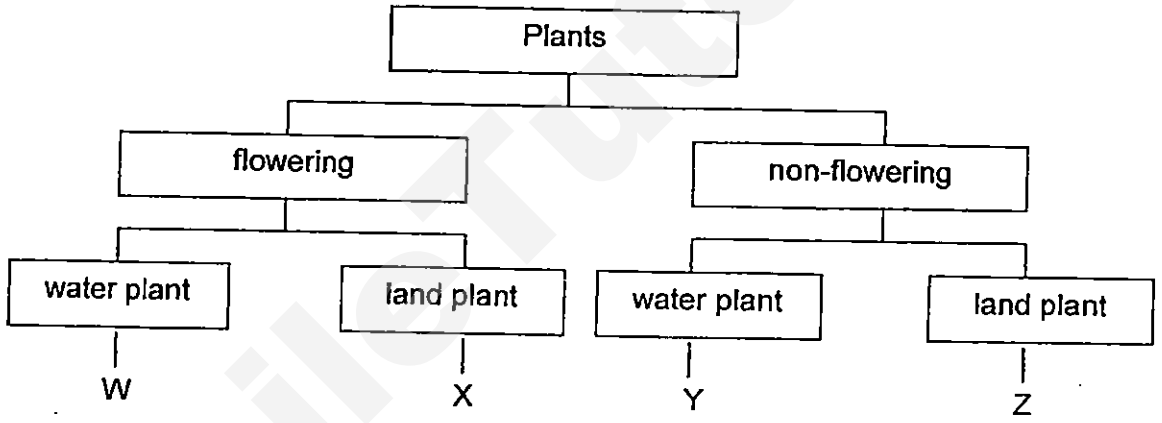
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14 The following table shows some information on two plants, A and B.

A tick (✓) indicates that the plant has the characteristic.

Observation	Plant A	Plant B
Has flowers		✓
Grows on land	✓	✓

Based on the information above, which letters, W, X, Y or Z best represents plant A and B?



	Plant A	Plant B
(1)	Z	W
(2)	Z	X
(3)	Y	W
(4)	Y	X

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15 Which one of the following can be used to tell the difference between birds and insects?

(1) Ability to fly
(2) How they reproduce
(3) Type of body covering
(4) Whether they live on land or in water

16 Study the characteristics of A, B, C and D below.

	Able to move	Has legs	Has three body parts	Able to reproduce
A	✓	✓		✓
B	✓	✓		
C	✓		✓	
D	✓	✓	✓	

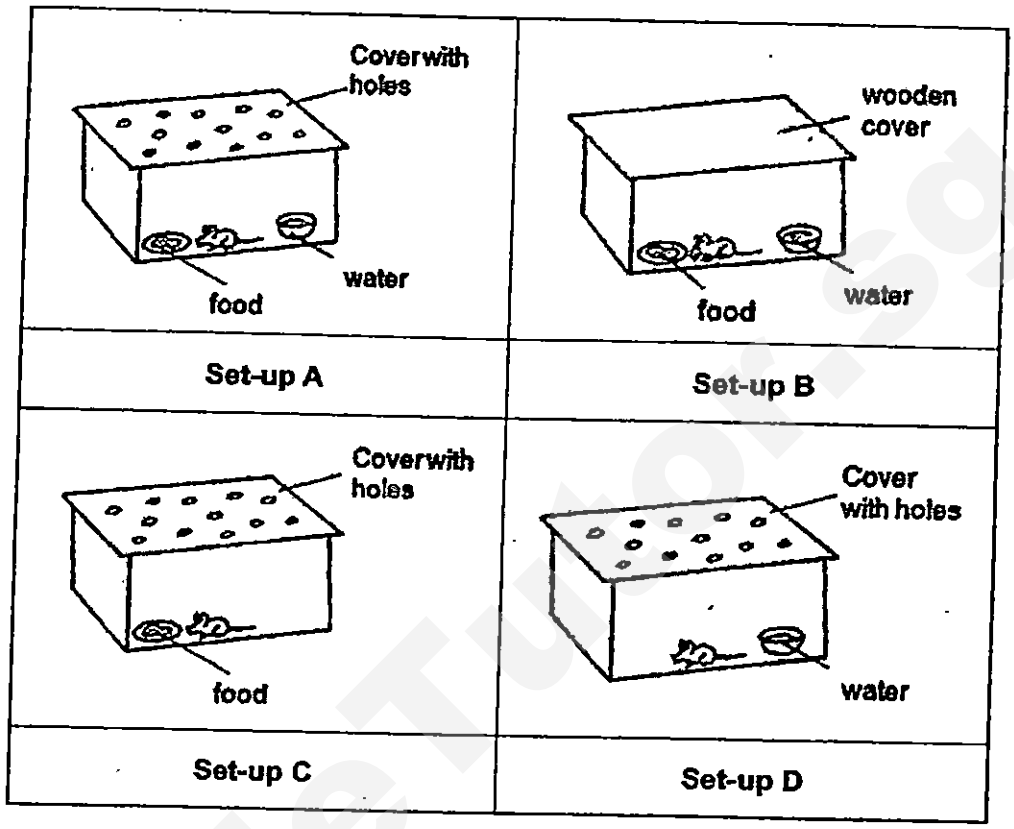
Which one of the following is likely to be a living thing?

(1) A
(2) B
(3) C
(4) D

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17 Lena conducted an experiment with four set-ups as shown below.



She wanted to find out if the hamster needed air to stay alive. Which two set-ups should she use?

(1) A and B

(2) A and C

(3) B and D

(4) C and D

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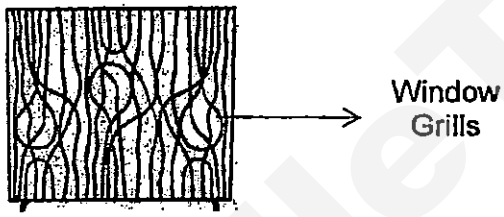
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18 Which of the following statements are **true** about fungi?

A: Fungi are living things.
B: Fungi reproduce by spores.
C: Fungi can make their own food.
D: All fungi have a cap, gills and stalk.

(1) A only
(2) A and B
(3) B and C
(4) C and D

19 Sandy is choosing window grills for her new house. What properties are important for her to consider when deciding on the material used to make the window grills?



A: Strength
B: Flexibility
C: Waterproof
D: Transparency

(1) A and B
(2) A and C
(3) B and C
(4) C and D

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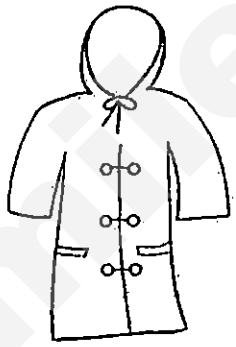
20 The table below shows the properties of three objects.

Properties	Object A	Object B	Object C
Bends easily		✓	
Absorbs water easily		✓	
Light cannot pass through it			✓
Breaks into pieces when dropped	✓		✓

Which of the following can these objects be?

	Object A	Object B	Object C
(1)	Plastic spoon	Cotton Shirt	Window Pane
(2)	Cotton Shirt	Ceramic cup	Plastic spoon
(3)	Window Pane	Paper plate	Cotton Shirt
(4)	Glass Bottle	Cotton Shirt	Ceramic cup

21 Look at the picture below.



What property should the material of the raincoat have?

(1) It should float in water.

(2) It should sink in water.

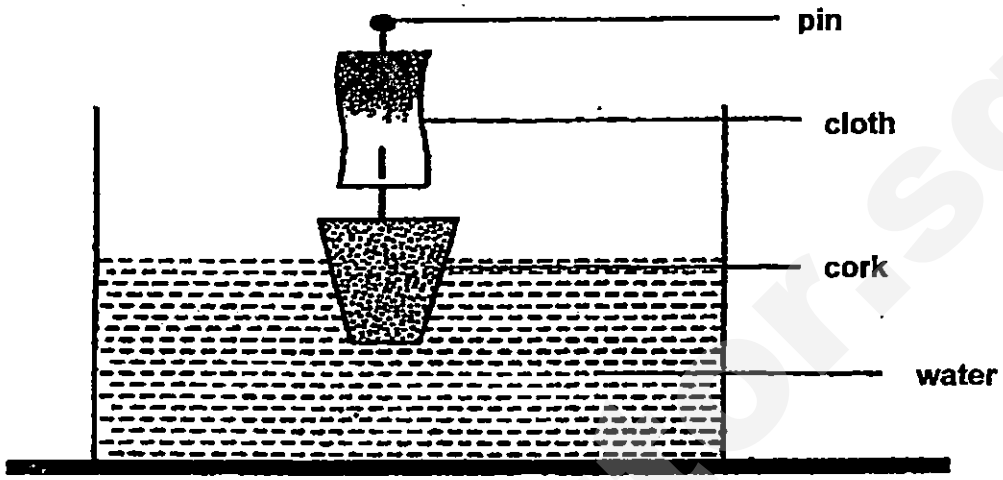
(3) It should not absorb water.

(4) It should allow light to pass through it.

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22 Timothy made a toy boat from a pin, a cork and a piece of cloth as shown below. He placed the toy in a basin of water. The toy moved when there was wind.



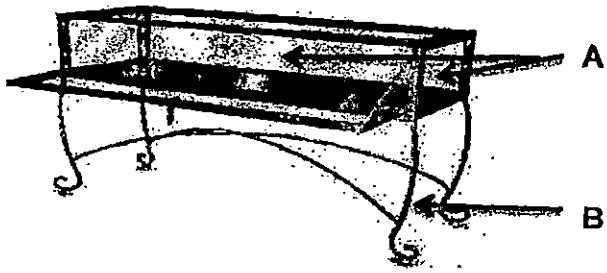
What properties of the materials used make it suitable for making the different parts of the toy boat?

	Cloth	Cork
(1)	Flexible	Able to float
(2)	Strong	Flexible
(3)	Waterproof	Able to float
(4)	Able to float	Waterproof

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23 Mr Tan owns a shop selling watches. He bought the following case so that he could display his new watches to his customers.



Which of the following are parts A and B of Mr Tan's case most likely made of?

	A	B
(1)	Plastic	Paper
(2)	Glass	Cloth
(3)	Ceramic	Rubber
(4)	Glass	Metal

24 Janelle works for a sporting wear company. She wants to buy a material which would allow her to produce a T-shirt suitable for joggers in Singapore.

Material	Waterproof	Flexible	Light
A			✓
B	✓	✓	✓
C	✓	✓	
D		✓	✓

Which material should she use?

(1) Material A

(2) Material B

(3) Material C

(4) Material D

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25 Katrina wanted to test the strength of four different kinds of plastic bags W, X,Y and Z. She put identical cans, one at a time, into each plastic bag until it begins to tear. She recorded her findings in the table as shown below.

	W	X	Y	Z
Number of cans the plastic bag could contain before it begins to tear.	8	14	11	10

If she needed to carry 12 cans, which plastic bag could she use?

(1) W
(2) X
(3) Y
(4) Z

26 The picture below shows a tube of toothpaste. The tube is made of Material X.



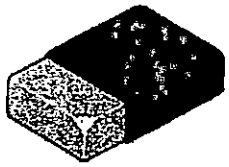
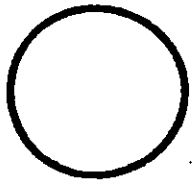
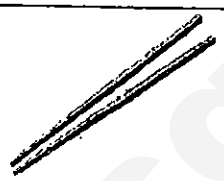
What property of Material X allows the toothpaste to be squeezed out?

(1) Strong
(2) Flexible
(3) Waterproof
(4) Transparent

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27 Clarissa conducted an experiment to test the ability of four different objects, to float or sink in water. She placed the following objects in a basin of water.

 A marble	 An eraser	 A ping pong ball	 A pair of metal chopsticks
A	B	C	D

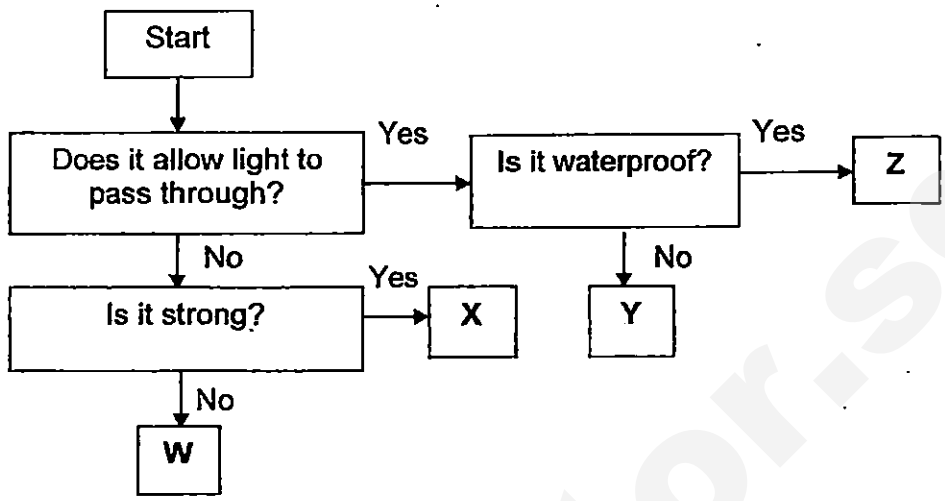
Which one of the following **correctly** shows the results of the experiment?

	Float	Sink
(1)	B	A, C and D
(2)	C	A, B and D
(3)	B and C	A and D
(4)	C and D	A and B

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28 The flow chart below shows the properties of some objects.



Which material, W, X, Y or Z is most likely to be used for making the screen of a handphone?

(1) Material W
(2) Material X
(3) Material Y
(4) Material Z

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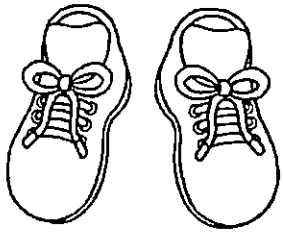
29 Which one of the following objects is likely to be made of **one** material only?

(1)



An umbrella

(2)



A pair of shoes

(3)



A balloon

(4)



A standing fan

30 Raymond needs to sort out some objects for recycling.
Which one of the following is **correct**?

	Paper	Plastic	Glass
(1)	Magazines	Water basin	Jam jar
(2)	Pencil	Water basin	Books
(3)	Magazines	Biscuit tin	Pencil
(4)	Books	Jam jar	Magazines

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Temasek Primary School

Semestral Assessment 1

Primary Three
2015

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SCIENCE
(Booklet B)

Name: _____

Class: Primary 3 _____

Date: 12 May 2015

Parent's Signature: _____

40 Marks

Total Time for Booklet A and B: 1h 45 min

INSTRUCTIONS TO CANDIDATES

1. **Do not open this booklet until you are told to do so.**
2. **Follow all instructions carefully.**
3. **Answer all questions.**
4. **Write your answers in this booklet.**

Paper	Marks	Scores
Booklet A	60	
Booklet B	40	
Total	100	

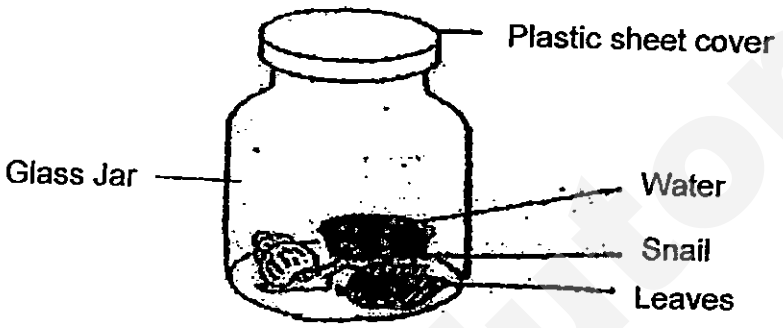
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For questions 31 – 44, write your answers in his booklet.

The number of marks available is shown in the brackets [ ] at the end of each question of part question.

(40 marks)

31) Jason wanted to find out about the needs of living things. He set up the experiment as shown below.



a) A week later, the snail died. Give a reason why the snail did not survive. [1]

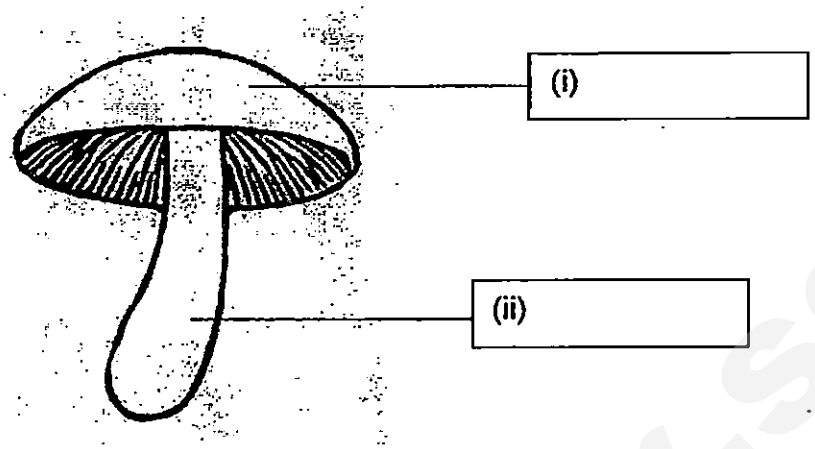
b) Without removing anything, what else could Jason have done to the set up to make sure that the snail stays alive? [1]

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32) Look at the drawing of a mushroom shown below.



a) Identify (i) and (ii). [1]

b) Which group of living things does it belong to? [1]

_____

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33) Celine needed to buy a pair of shoes for her daily walk in the park.



Glass shoes



Wooden shoes



Rubber shoes

a) Which pair of shoes should she buy? [1]

_____

b) Give a reason for your choice. [1]

_____

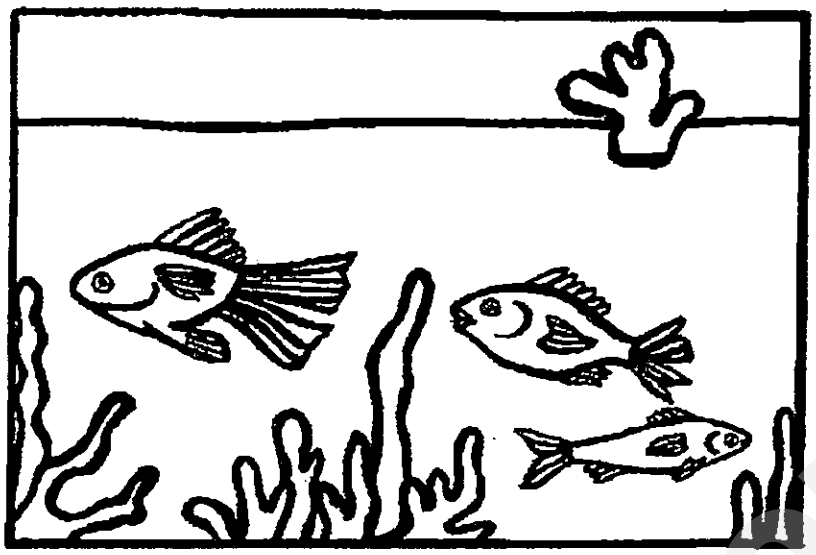
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34) Carrie has a fish tank made of glass as shown below.



a) When Carrie knocked on the fish tank, the fish swam away. Which characteristic of living things was the fish showing? [1]

_____

b) A few months later, Carrie noticed that the fish in the tank were bigger. She also saw some fish eggs at the bottom of the tank. What does this show about living things? [2]

_____

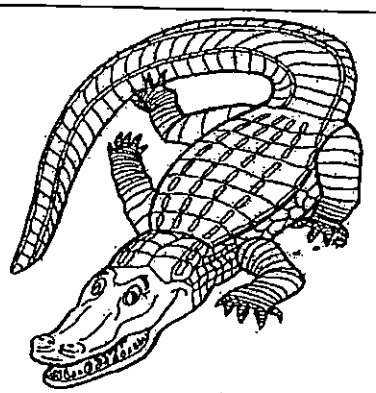
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35) Study the pictures below.

	
Animal A	**Animal B**

a) Based on the picture only, state one similarity between Animal A and Animal B. *(do not compare size and colour)* [1]

_____

_____

b) Based on the picture only, state one difference between Animal A and Animal B. *(do not compare size and colour)* [1]

_____

_____

c) Which animal, A or B will you classify under the 'Reptile' group? [1]

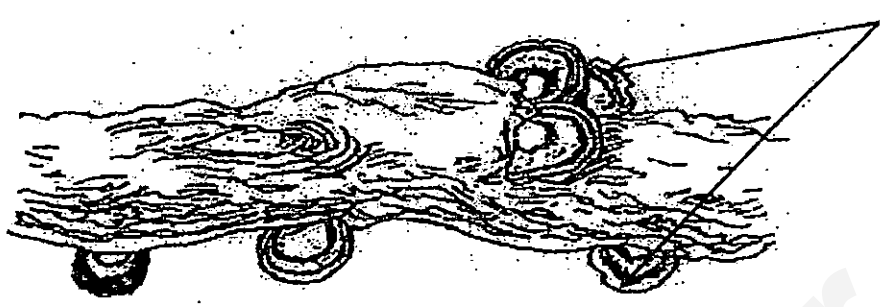
Animal _____

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36) Tricia and Cally saw some bracket fungi on a dead log on the way home from school.



a) Cally told Tricia that bracket fungi are plants. Is she correct? Explain your answer. [2]

_____

_____

b) Based on the diagram above, how do the bracket fungi obtain food? [1]

_____

_____

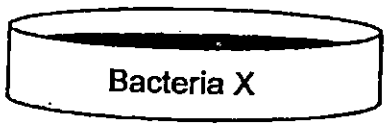
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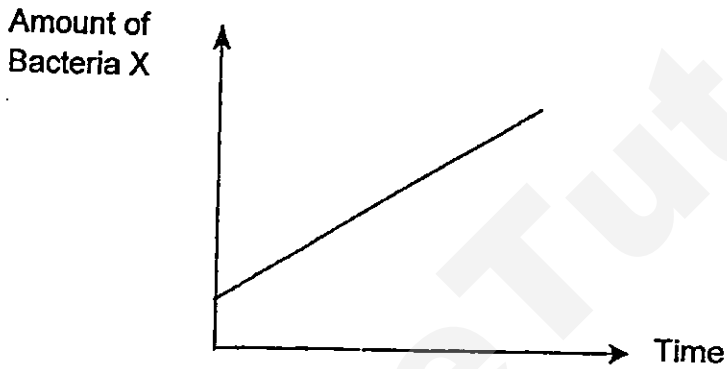
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37) A group of pupils wanted to observe the growth of Bacteria X.



The pupils observed Bacteria X closely under the microscope everyday for five days. The data was collected and shown on the graph below.



a) Why is there an increase in the amount of Bacteria X over the five days? [1]

_____

b) Is Bacteria X a living thing? Explain your answer. [1]

_____

_____

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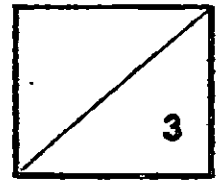
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c) Is Bacteria X a microorganism? Explain your answer. [1]

_____

_____

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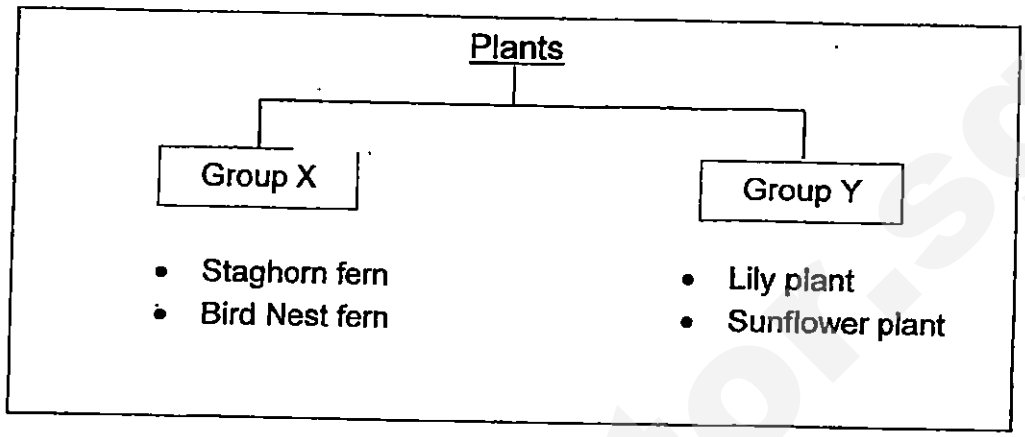


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38) The classification table below shows two different kinds of plants.



a) Identify Group X and Group Y. [2]

Group X: _____

Group Y: _____

b) State one difference in the way the two groups of plants reproduce. [1]

_____

_____

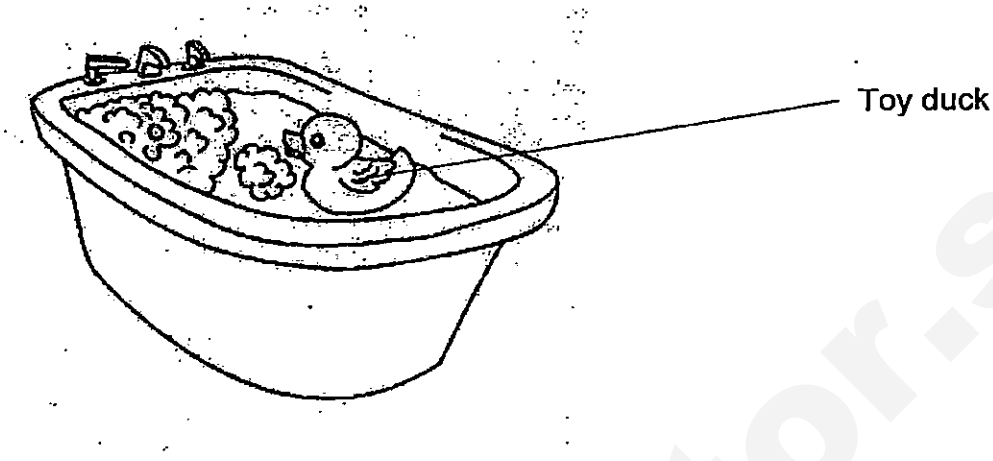
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39) The diagram below shows a toy duck made for children to play in the bathtub.



a) What material would be suitable for making the toy duck? [1]

_____

b) State two properties of your answer in (a) which make it suitable for making the toy duck. [2]

i) _____

ii) _____

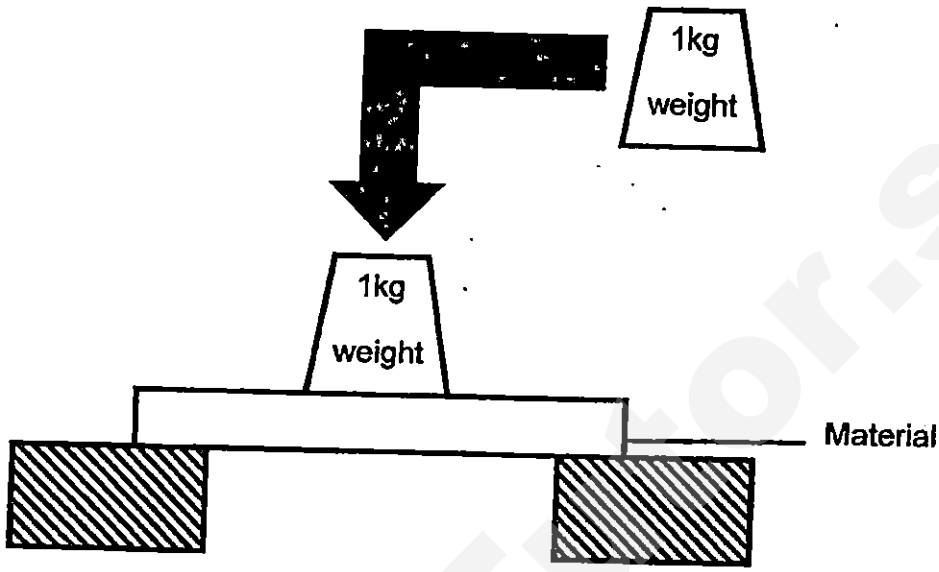
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40) Charlotte set up the following experiment as shown below. The materials were of the same size and shape. She noted the number of 1 kg weights that were placed on top of each other before each of the materials broke.



She recorded her results in the table below.

Material	Number of 1 kg weights placed on top of each other before the material broke
A	7
B	1
C	12
D	5

a) What property of material was Charlotte testing in this experiment? [1]

_____

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b) Which Material, A, B, C or D should Charlotte choose to make a table? [1]

_____

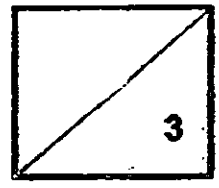
c) Explain your answer in (b). [1]

_____

_____

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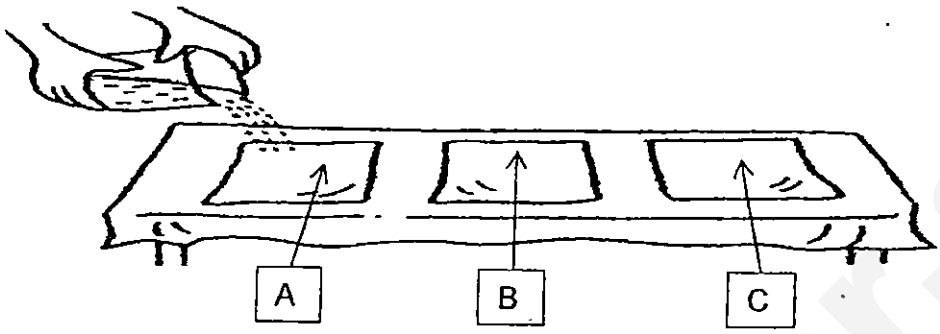


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41) Kelvin puts three pieces of materials A, B and C of the same shape and size on a dry table cloth. He pours 20 ml of water onto each piece of material as shown below.



Kelvin then records his observations as shown in the table below.

Material	Results
A	There is no water left on top of Material A. The table cloth under it remains dry.
B	There is no water left on top of Material B. The table cloth under it becomes wet.
C	Water is left on top of Material C. The table cloth under it remains dry.

a) Based on the results of the experiment, which material is most suitable for the covering of an umbrella? [1]

_____

b) Explain your choice in (a). [1]

_____

_____

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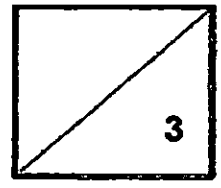
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c) Which material, A, B, or C is most suitable for making a towel? [1]

_____

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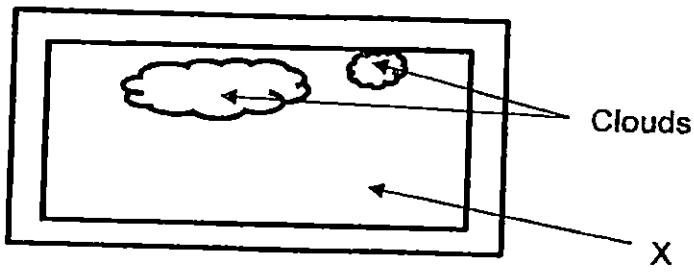


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42) Timothy has a window in his living room. He can see the sky from his window.



a) Which material is most suitable to make Part X of the window? [1]

Part X: _____

b) Explain why you would use that material for making Part X. [1]

_____

_____

c) Timothy decides to install some metal window grills to prevent anyone from climbing in through the window. Explain why he would choose to use this material. [1]

_____

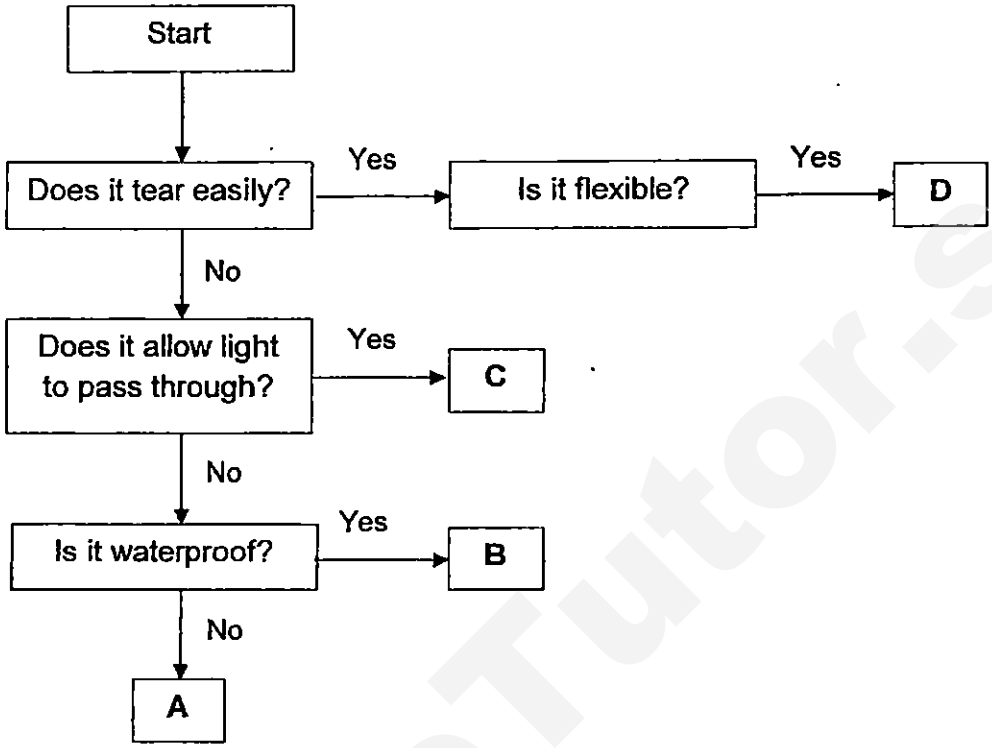
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43) Study the flow chart below carefully.



a) What do objects A, B, C and D represent? Fill in the blanks with the words given below. [2]

Mirror	Paper plate	Black leather jacket	Window pane

	Object
A	
B	
C	
D	

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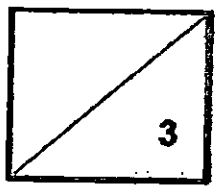
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b) Which object, A,B,C or D would "rubber gloves" represent? [1]

_____

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44) A furniture shop sells four kinds of chairs made of different materials as shown below.



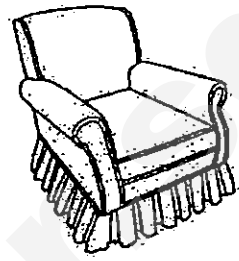
Wooden Chair
(W)
Mass: 1000g



Metal Chair
(X)
Mass: 1200g

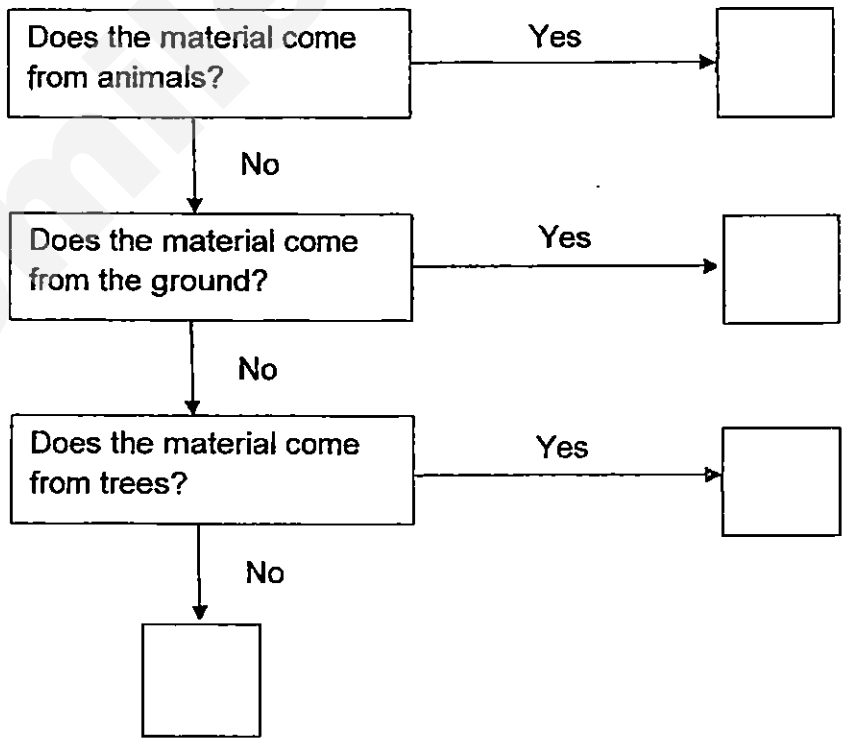


Plastic Chair
(Y)
Mass: 400g



Silk Chair
(Z)
Mass: 800g

a) Complete the chart below with the information given in the diagram above. [2]
Fill in the correct boxes with W, X, Y or Z.



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b) Tim wants to buy 10 chairs of the same material for a party he is having. He lives on the 5th floor of a building where there are no lifts so he will have to carry the chairs up by himself. Which of the above chairs is Tim likely to buy? [1]

_____

c) State a property of the material for your choice in (b) [1]

_____

4

End of paper

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : TEMASEK PRIMARY SCHOOL
SUBJECT : SCIENCE
TERM : SA1

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
3	**2**	**4**	**4**	**1**	**4**	**2**	**3**	**1**	**3**
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
2	**4**	**3**	**2**	**3**	**1**	**1**	**2**	**2**	**4**
Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
3	**1**	**4**	**4**	**2**	**2**	**2**	**4**	**3**	**1**

Q31a. It did not have enough air. Q31b. Poke some holes onto the plastic sheet cover.

Q32a. (i) cap (ii) stalk Q32b. Fungi

Q33a. Rubber shoes Q33b. It is flexibly

Q34a. It responds to changes. Q34b. Living things can grow and reproduce.

Q35a. They both have tails.

Q35b. Animal A is covered with scales and Animal B is covered with fur or hair.

Q35c. Animal A. Q36a. No. Bracket fungi feed on living things.

Q36b. It obtains from he dead log.

Q37a. It reproduces. Q37b. Yes. It can reproduce.

Q37c. Y. All bacteria are microorganisms.

Q38a. Group X: Non flowering Group Y: Flowering

Q38b. Group X reproduce by spores and group Y reproduce by seeds.

Q39a. Rubber Q39b (i) It can float on water Q39b (ii) It is also waterproof.

Q40a. It is strong. Q40b. C Q40c. It must not break easily.

Q41a. C Q41b. It is waterproof. Q41c. A

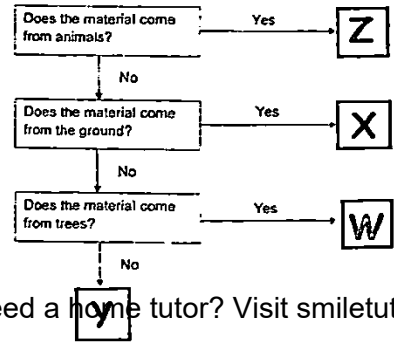
Q42a. Part X: Glass Q42b. It is transport Q42c. It is strong

Q43a. **A**: Black leather jacket **B**: mirror

Q43a. **C**: Windowpane **D**: Paper Plate Q43b. B

Q44a. Z , X , W Q44b. Y Q44c. It is light

Q44



THE END

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ANGLO-CHINESE SCHOOL
(JUNIOR)

CONTINUAL ASSESSMENT 2 (2015)
PRIMARY 3

SCIENCE

BOOKLET A

Wednesday **26 August 2015** **50 MINUTES**

Name : _____ **(** **)**

Class : P3 _____

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 12 questions in this booklet.

Answer **ALL** questions.

INFORMATION FOR PUPILS

The total marks for this booklet is 24.

The total time for Booklets A and B is 50 minutes.

This question paper consists of 9 printed pages (inclusive of cover page).

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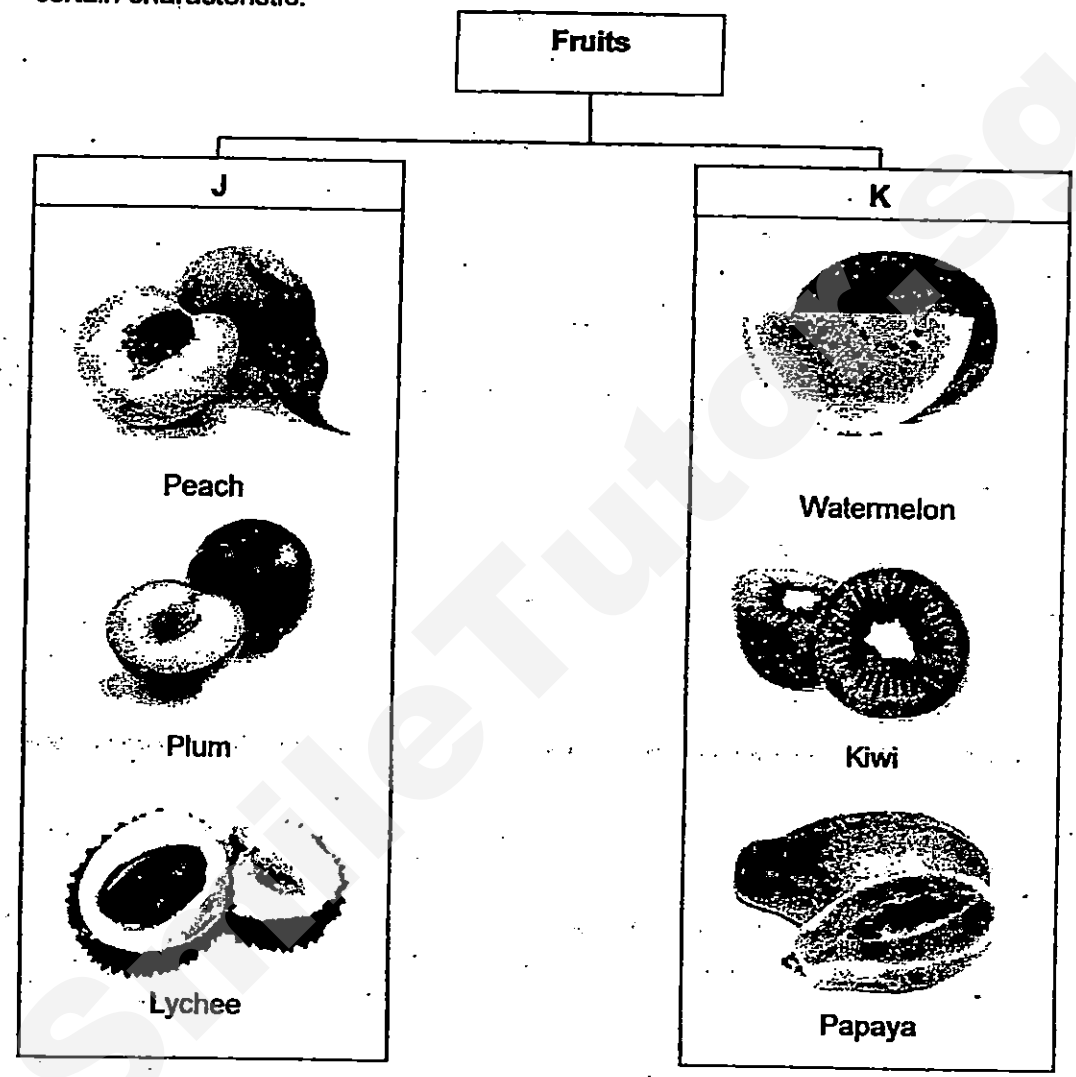
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Section A (24 marks)

For each question from 1 to 12, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer on the Optical Answer Sheet.

1 The classification chart below shows how some fruits were classified according to a certain characteristic.



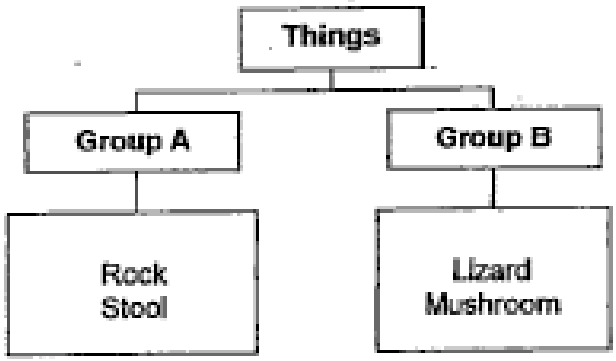
Which of the following is likely to be the sub-headings for J and K?

	J	K
(1)	Edible	Not edible
(2)	Rough skin	Smooth skin
(3)	One seed	Many seeds
(4)	Oval-shaped	Round-shaped

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2 Study the classification chart below.



Which of the following thing(s) can be classified under Group B?

A Clouds
B Bacteria
C Rubber Duck
D Bird's Nest Fern

(1) B only
(2) B and D only
(3) A, C and D
(4) A, B, C and D

3 Which of the following statements is <u>not true</u> about all flowering plants?

(1) They make their own food.
(2) They have flowers all year round.
(3) They will produce flowers when the conditions are right.
(4) They can produce flowers when they become adult plants.

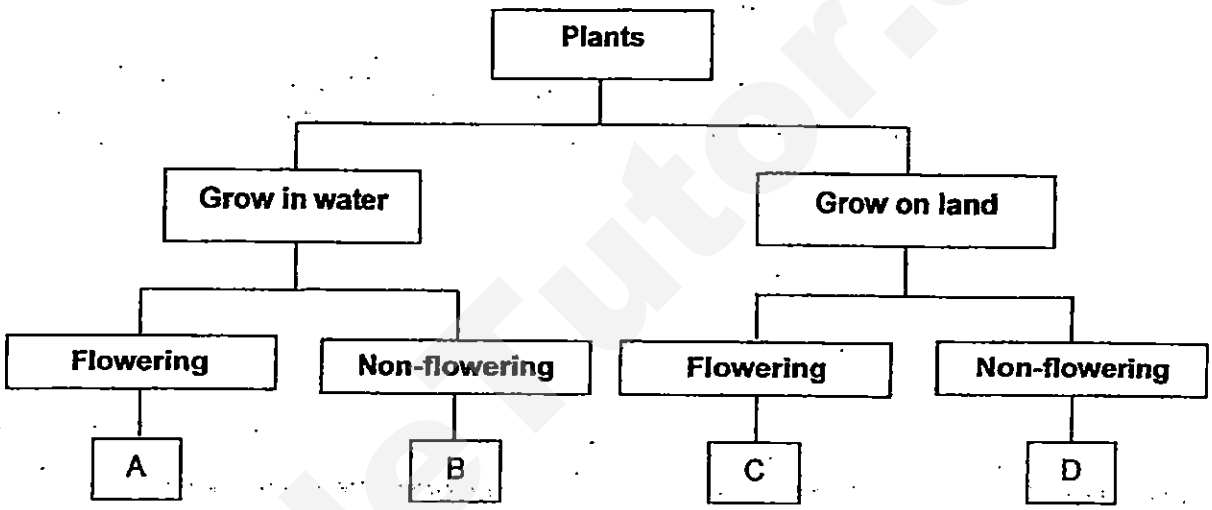
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4 The following table shows some characteristics of two plants, X and Y.

Characteristics	Plant X	Plant Y
Does it grow in water?	Yes	No
Does it have flowers?	No	Yes

Use the classification chart to identify Plants X and Y.



Which of the following letters, A, B, C and D, in the flowchart best represent Plants X and Y?

	Plant X	Plant Y
(1)	B	A
(2)	D	C
(3)	A	D
(4)	B	C

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5 The table below states the characteristics of Animals X, Y and Z. A tick in the box indicates that the animal has the characteristic.

Characteristics	Animal X	Animal Y	Animal Z
Can swim		✓	✓
Has hair			✓
Has 6 legs	✓		

Which one of the following groups of animal do Animal X and Animal Z belong to?

	Animal X	Animal Z
(1)	Reptile	Fish
(2)	Insect	Mammal
(3)	Amphibian	Mammal
(4)	Insect	Reptile

6 The picture below shows a frog.



Frog

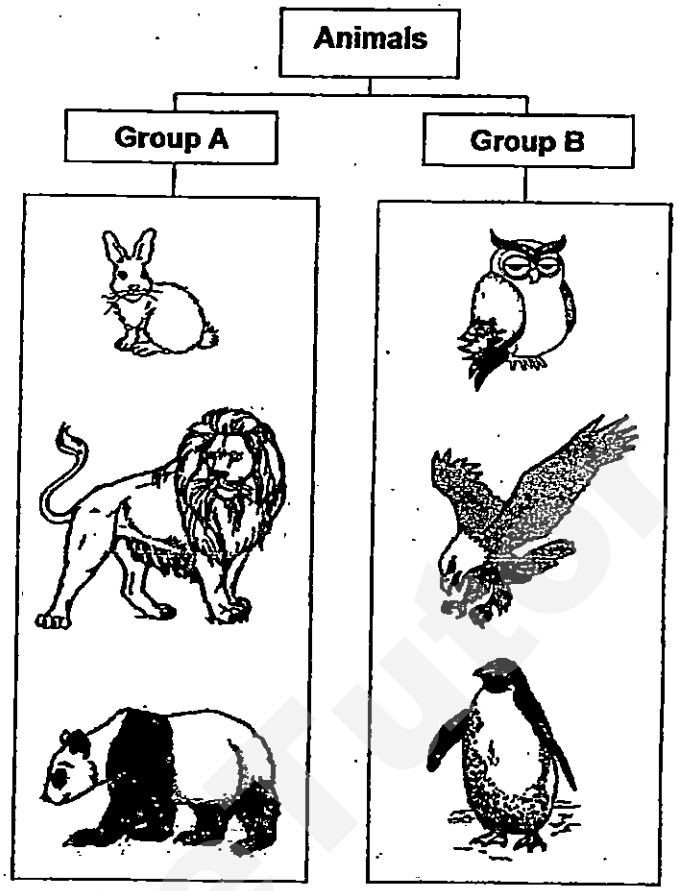
Which parts of the frog help it to breathe on land and in water?

	Breathe on land	Breathe in water
(1)	Lungs	Moist skin
(2)	Dry skin	Gills
(3)	Lungs	Gills
(4)	Dry skin	Moist skin

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7 Some animals are grouped as shown below.



Which of the following is a possible grouping for the animals in the diagram above?

(1) They are grouped according to what they eat.
(2) They are grouped according to where they live.
(3) They are grouped according to their outer covering.
(4) They are grouped according to how they move about.

8 Which of the following objects can be used to see microorganisms clearly?

(1) naked eye
(2) binoculars
(3) microscope
(4) magnifying glass

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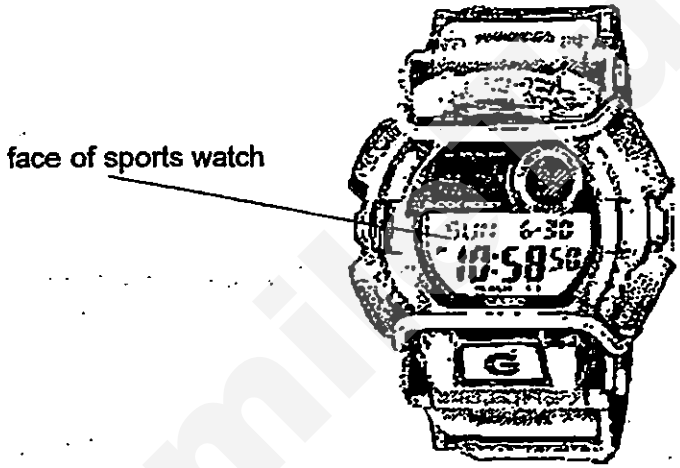
9 Sanjay came up with the following statements about fungi and bacteria after his Science class.

A Some fungi can be eaten.
B Bread mould is an example of bacteria.
C Some fungi can be seen with the naked eye.
D Bacteria do not respond to changes in the surroundings.

Which of the following sentence (s) made by Sanjay is/are correct?

(1) D only
(2) A and C only
(3) A, B and C only
(4) A, B, C and D

10 The diagram below shows a sports watch used while swimming.



sports watch

The table below shows the properties of materials W, X, Y and Z. They are the different materials used to make the different parts of the sports watch. Which of the following materials has the most suitable properties to make the face of the sports watch?

	Material	Properties
(1)	W	waterproof, opaque
(2)	X	waterproof, transparent
(3)	Y	strong, flexible
(4)	Z	strong, hard

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1.1 The picture below shows a pair of spectacles.



Ismail decided to carry out some tests on a few materials to find out which material is most suitable for making the frame of his spectacles.

Test	Properties
E	Whether it is light
F	Whether it is able to float on water
G	Whether it is waterproof
H	Whether it allows light to pass though

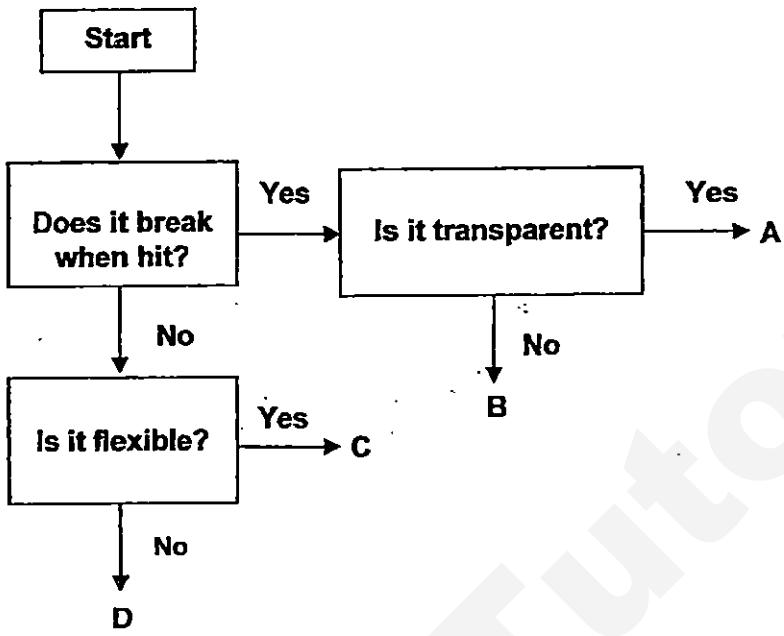
Which of the following two tests will help him decide on the most suitable material?

(1) E and F only
(2) E and G only
(3) G and H only
(4) F and H only

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12 The flow chart below shows the properties of four objects made out of different materials A, B, C and D.



Which of the following objects can A, B, C and D be?

	A	B	C	D
(1)	Plastic table	Glass beaker	Clay pot	Rubber gloves
(2)	Glass beaker	Clay pot	Rubber gloves	Plastic table
(3)	Plastic table	Glass beaker	Rubber gloves	Plastic table
(4)	Glass beaker	Clay pot	Plastic table	Rubber gloves

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ANGLO-CHINESE SCHOOL
(JUNIOR)

CONTINUAL ASSESSMENT 2 (2015)
PRIMARY 3

SCIENCE

BOOKLET B

Wednesday **26 August 2015** **50 MINUTES**

Name : _____ ( )

Class : P3 _____

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 6 questions in this booklet.

Answer **ALL** questions.

INFORMATION FOR PUPILS

The number of marks is given in brackets [ ] at the end of each question or part question.

The total marks for this booklet is 16.

The total time for Booklets A and B is 50 minutes.

This question paper consists of 6 printed pages. (Inclusive of cover page)

PRACTICAL	**/ 10**
BOOKLET A	**/ 24**
BOOKLET B	**/ 16**
TOTAL	**/ 50**
Parent's signature/ Date:	

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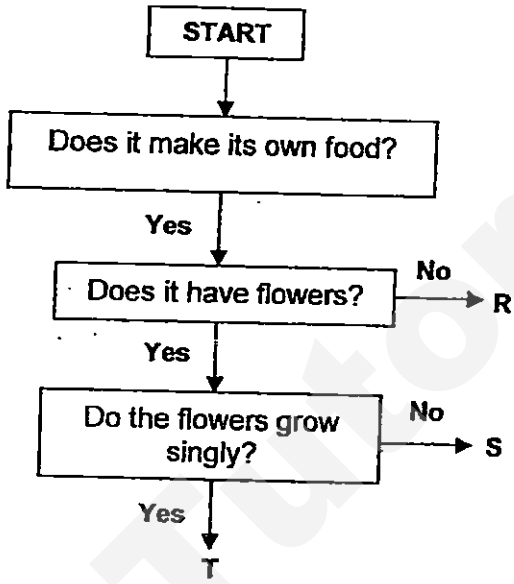
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Booklet B (16 marks)

For questions 13 to 18, write your answers in this booklet.
The number of marks available is shown in brackets [ ] at the end of each question or part question.

13 Study the flowchart below.



(a) Based on the flowchart above, which of the following letters, **R**, **S** or **T**, best describes a rose as shown in the diagram below? [1]



Rose

(b) State **all** the characteristics of **S** from the flowchart above. [1]

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SCORE	/2

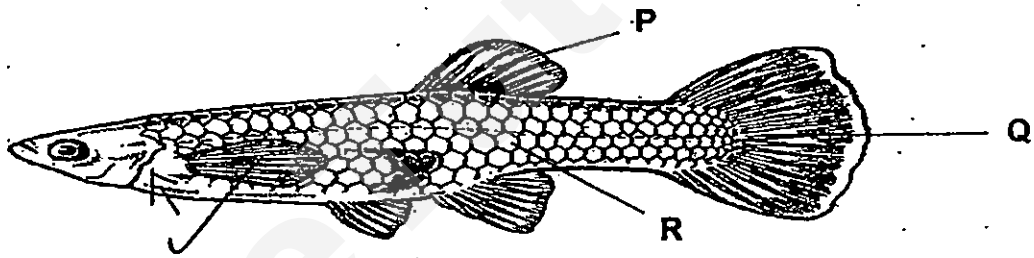
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14 Write T for True and F for False in the boxes provided after reading the statements about living things below. [2]

- All bacteria are harmful to us. ☐
- All living things give birth to their young. ☐
- Living things respond to changes around them. ☐
- Mushrooms are plants because they reproduce from spores. ☐

15 Study the picture of a fish below carefully.



(a) Name the body covering, R. [1]

_____

(b) Parts P and Q help the fish in its movement. Name parts P and Q. [1]

P: _____

Q: _____

(c) Draw an arrow (⟶) on the fish to show the part of the fish that helps it to breathe. [1]

(Go on to the next page)

SCORE / 5

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16 Mrs Kwan carried out an experiment in class to find out how the amounts of water given to two identical plants affect their growth. Plant A was given 50ml of water daily while Plant B was given 100ml of water daily. She recorded her observations in the table below.

Day	Height of Plant A (cm)	Height of Plant B (cm)
1	5	5
2	6	7
3	7	10
4	8	12
5	9	14
6	10	16

(a) Name another variable, apart from those already mentioned in the question, that has to be kept the same for the test to be fair. [1]

_____

_____

(b) Based on the information in the table above, how does the amount of water given to the plants affect their growth? [1]

_____

_____

(c) Apart from water, what else do plants need to survive? [1]

_____

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SCORE	
	3

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17 Ali and Wei Ming saw some bracket fungi on a rotting log in the school field.



(a) Wei Ming told Ali that bracket fungi are plants. Is he correct? Explain your answer. [1]

_____

_____

(b) Explain why bracket fungi are usually found on dead animals and plants like a rotting log. [1]

_____

_____

(c) How do bracket fungi reproduce? [1]

_____

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SCORE / 3

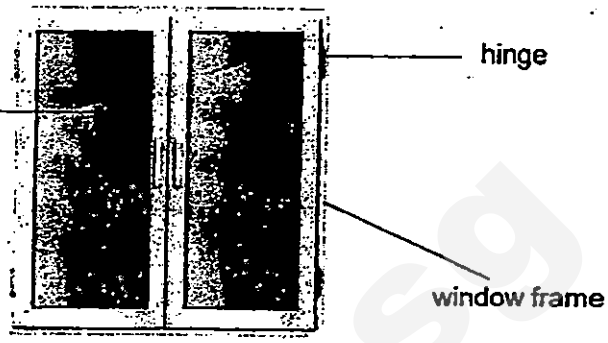
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18 Kyan observed the objects in his house. He noticed a fish bowl and a window as shown below.



fish bowl



window

(a) The fish bowl allows Kyan to see the fish while it is swimming. Which of the following materials, metal, ceramic or plastic, is most suitable for making the fish bowl? [1]

_____

(b) What is the common property between the material used to make the fish bowl and material used to make the window pane? [1]

_____

(c) Kyan noticed that the hinges fixed on the window frames shown above are all made of metal. Which is the most important property of metal that makes it suitable for making this hinge? [1]

_____

_____

End of Paper

SCORE ___/8

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : ANGLO CHINESE SCHOOL (JUNIOR)
SUBJECT : SCIENCE
TERM : CA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	2	4	2	1	3	3	2	2

Q11	Q12
2	2

Q13a. T Q13b. It can make its own food, it has flowers and the flowers doe grow singly.

Q14 F / F / T / F

Q15a. Scales Q15b. P: fin Q15b. Q: tail . Q15c. **SEE PICTURE**

Q16a. The amount of sunlight.

Q16b. The more water given to the plant, the taller it will be.

Q16c. Plants need nutrients, air and sunlight to survive.

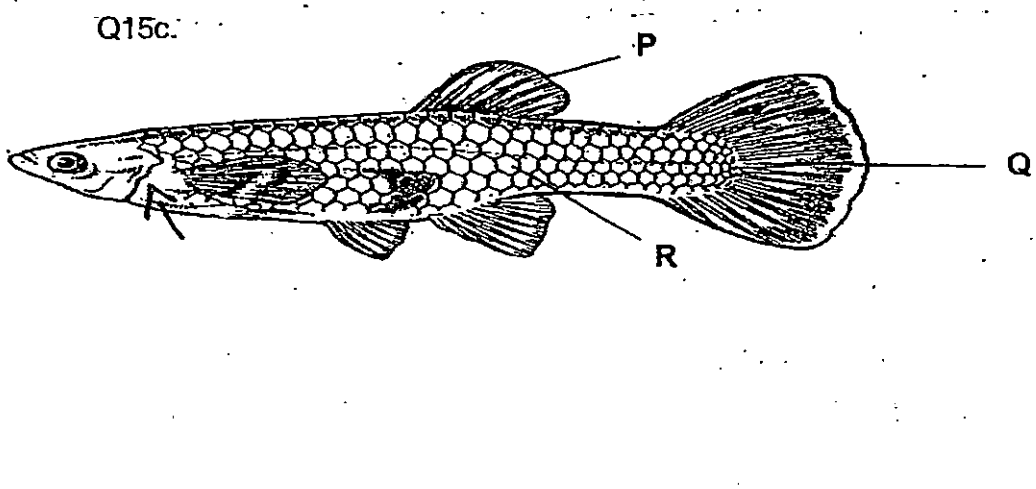
Q17a. No. The bracket fungi has no roots, stems, leaves and does not need sunlight to grow.

Q17b. Bracket fungi feed on dead or decay things.

Q17c. Bracket fungi reproduce by spores.

Q18a. Plastic Q18b. They must be transparent. Q18c. It is strong.

Q15c.



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RIVER VALLEY PRIMARY SCHOOL
2015 Continual Assessment 2
PRIMARY 3

SCIENCE

(BOOKLET A)

Name : _____ Date : 01 / 09 / 2015

Class: P3 _____ Total Time for Booklet A & Booklet B : 1 hr 15 mins

INSTRUCTIONS TO CANDIDATES

1. Write your name, index number and class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For Section A, shade your answers for questions 1 to 10 in the Optical Answer Sheet (OAS) provided.
6. For Section B, write your answers for questions 11 to 18 in the space provided in the booklet.
7. The total marks for Booklet A is 20 marks.

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Section A (20 marks)

For each question 1 to 10, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

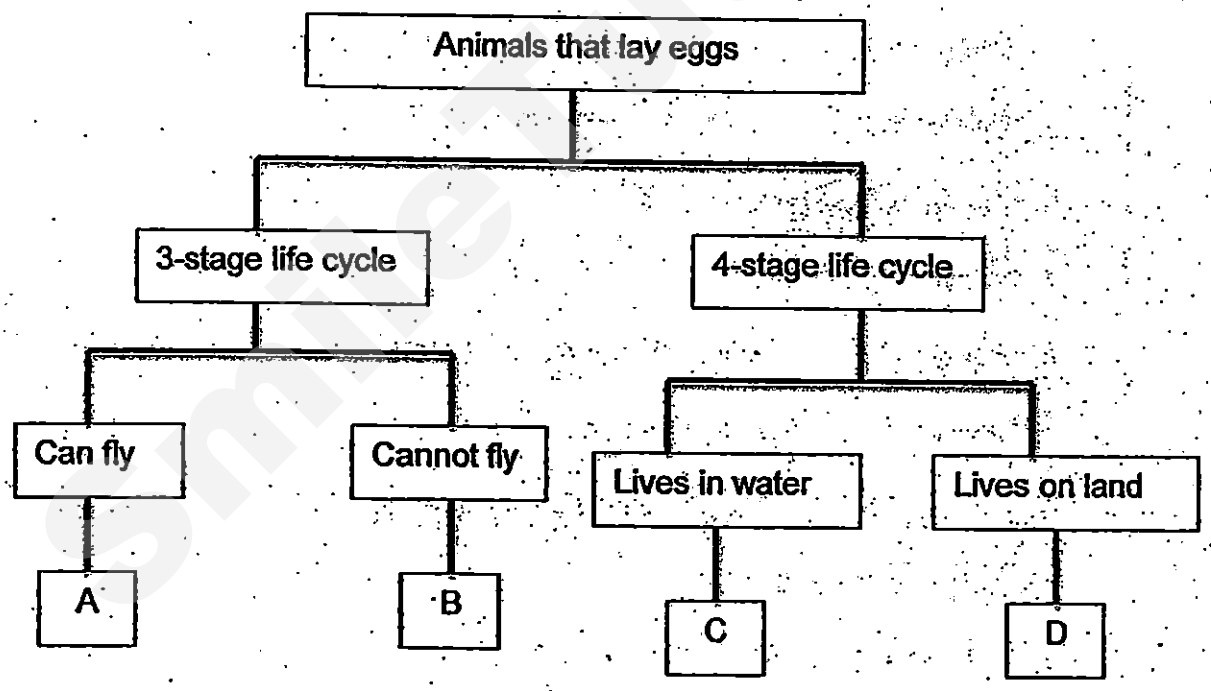
1. Which of the following statements is/are true?

A: The life cycles of animals show the different stages of their growth.
B: The life cycles of animals ensure the continuation of their own kind.
C: The young of an animal will go through the same life cycle as its parent.

(1) A only
(2) B only
(3) B and C only
(4) A, B and C

( )

2. Study the classification chart below.



Which of the above animals (A, B, C or D) is likely to be a bird?

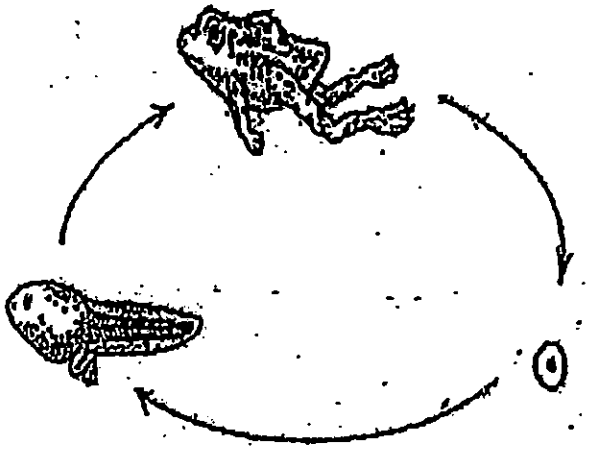
(1) A and B
(2) B and C
(3) B and D
(4) C and D

( )

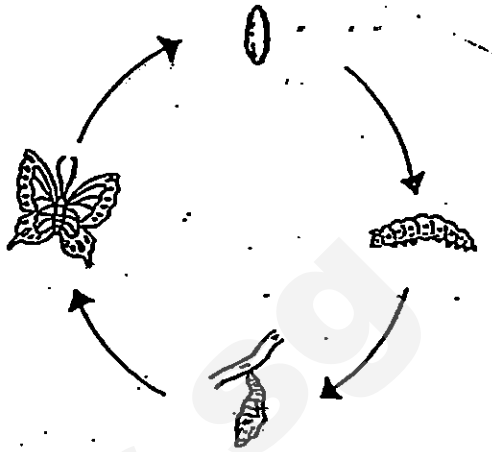
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3. The diagrams below show the life cycles of two animals.



Life cycle of Animal X



Life cycle of Animal Y

Which of the following statement(s) show(s) similarities between the two life cycles?

A : Both have 4 stages.

B : Both their young do not resemble the adult.

C : Both spend part of their life cycle living in water.

(1) A only

(2) B only

(3) A and C only

(4) B and C only

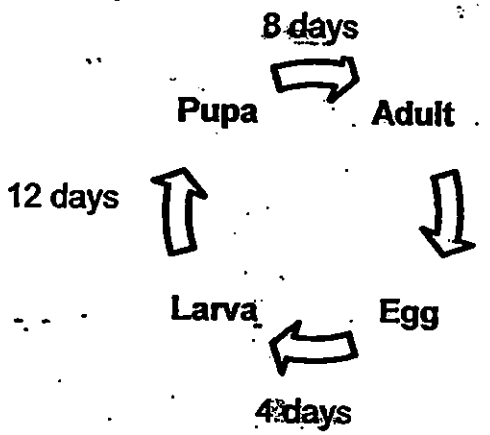
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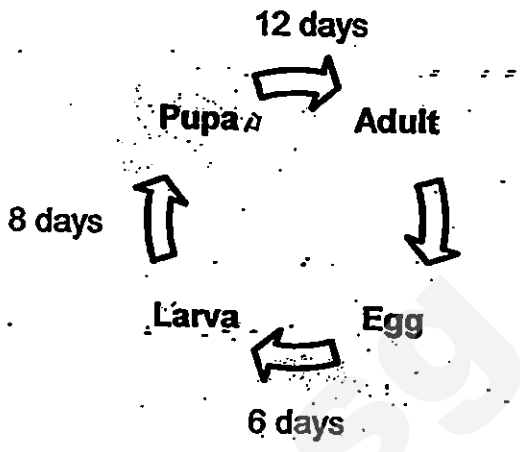
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4. The diagrams below shows the life cycles of Insect A and Insect B.



Life Cycle of Insect A



Life Cycle of Insect B

On day 15, which stage would both insects be at?

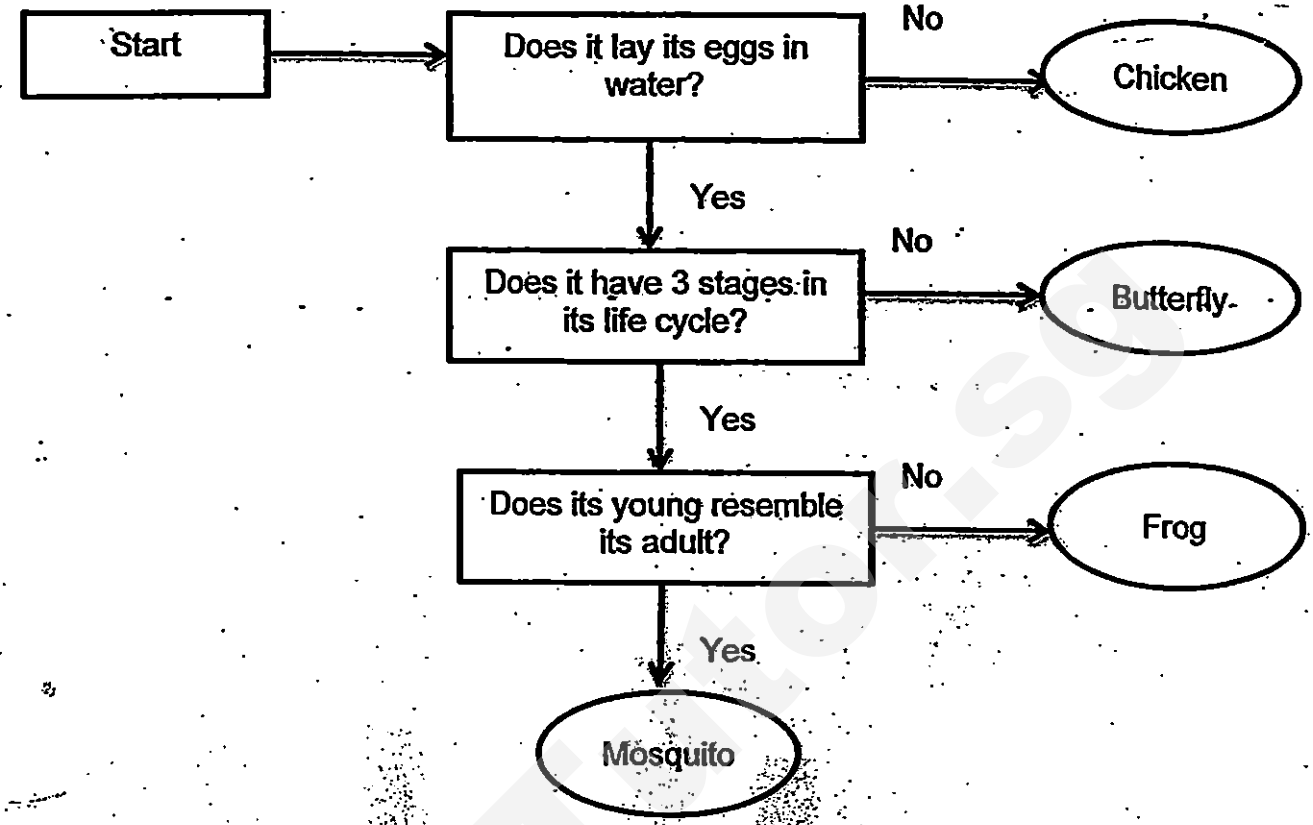
	Insect A	Insect B
(1)	Pupa	Pupa
(2)	Larva	Larva
(3)	Larva	Pupa
(4)	Pupa	Larva

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5. Hanis drew a flowchart below.



Which of the above animal(s) is / are placed **wrongly**?

(1) Mosquito only
(2) Butterfly and Mosquito only
(3) Chicken and mosquito only
(4) Butterfly, frog and mosquito only

( )

/

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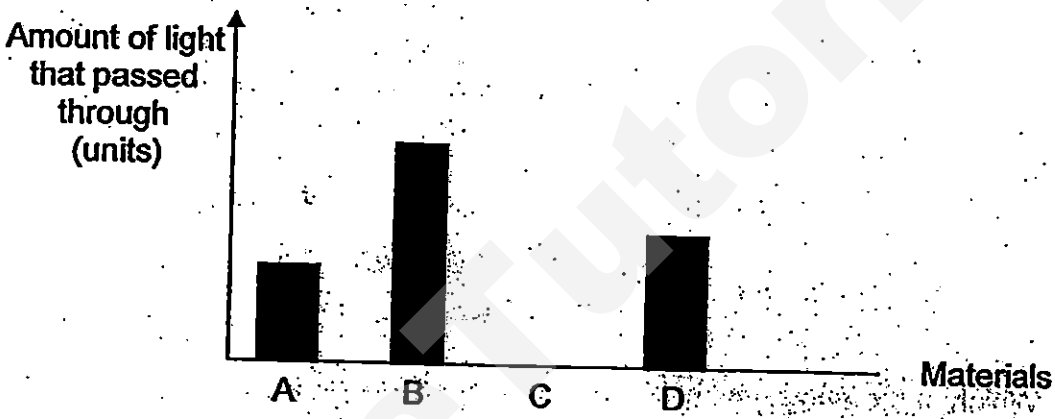
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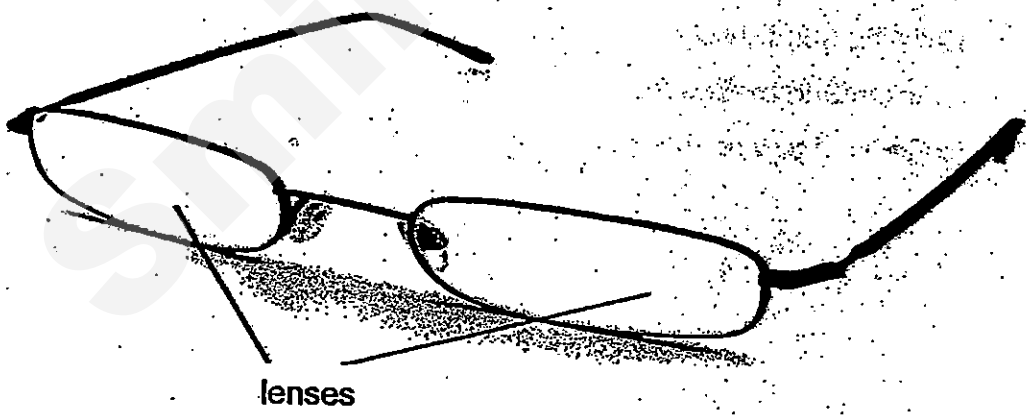
6. Alice used a datalogger to measure the amount of light that can pass through four different materials.



The graph below shows the results of her experiment.



Which material (A, B, C or D) is most suitable to be used to make the lenses of a pair of spectacles?



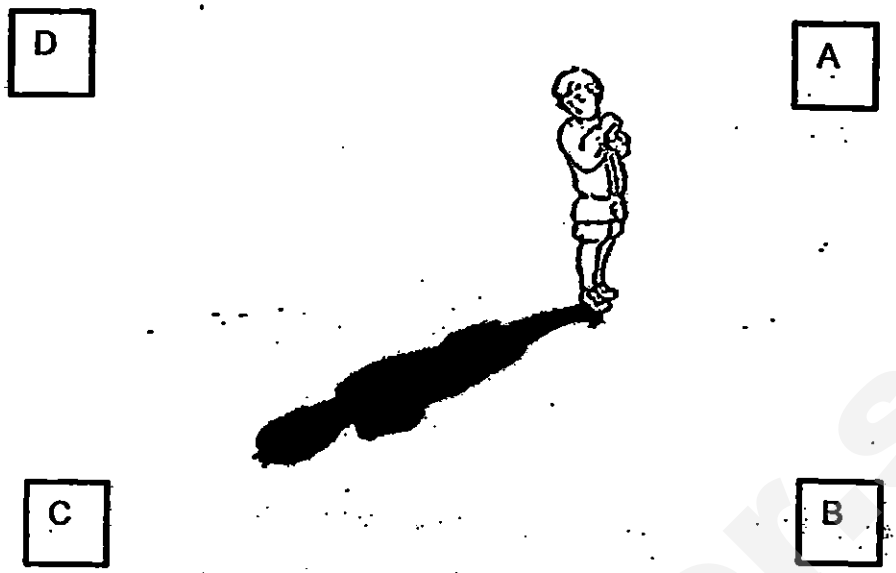
(1) A
(2) B
(3) C
(4) D

( )

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7. A boy is looking at his shadow as shown in the diagram below.



At which position (A, B, C or D) is the sun most probably shining from?

(1) A
(2) B
(3) C
(4) D

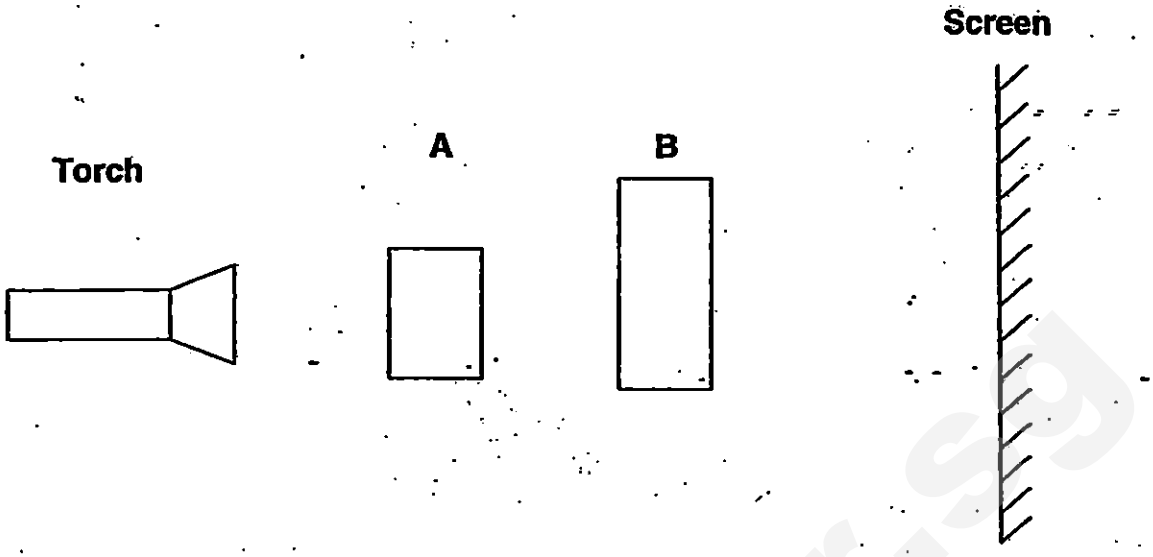
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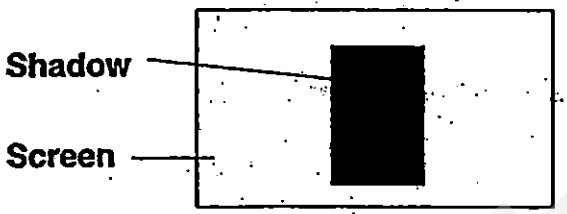
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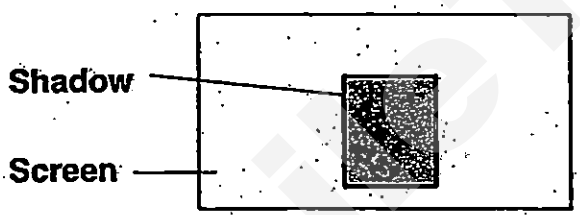
8. Adam shone a torch on objects A and B as shown below.



He observed that a dark shadow was cast on the screen.



He then removed Object B and saw a new, lighter shadow cast on the screen.



What can Adam conclude about the 2 objects he used?

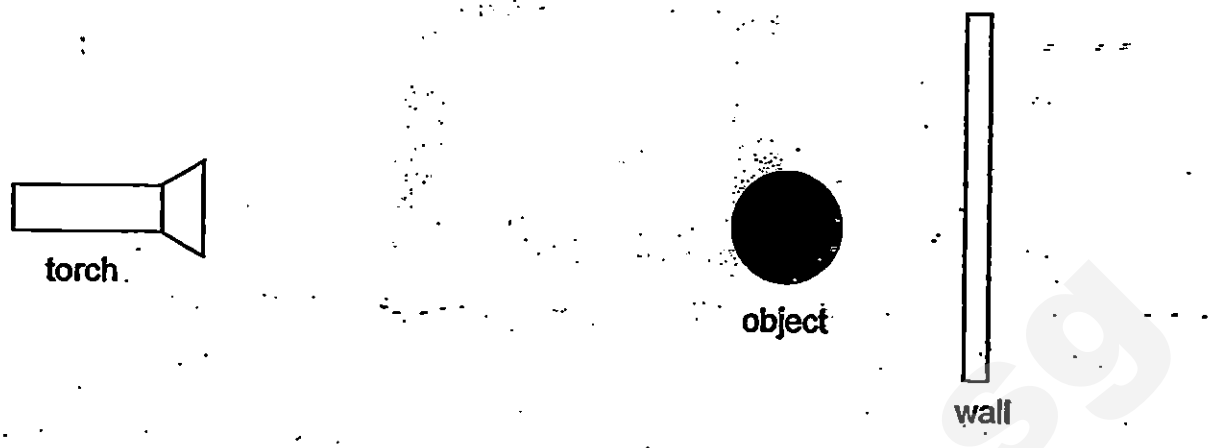
	Object A	Object B
(1)	Opaque	Opaque
(2)	Translucent	Opaque
(3)	Opaque	Translucent
(4)	Translucent	Translucent

( )

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9. Raju carried out an experiment as shown below.



A shadow was formed on the wall. What will happen to the shadow if the torch is moved nearer to the object?

A : The shadow becomes less blur.
B : The shadow becomes more blur.
C : The shadow becomes bigger.
D : The shadow becomes smaller.

(1) A and C only
(2) A and D only
(3) B and C only
(4) B and D only

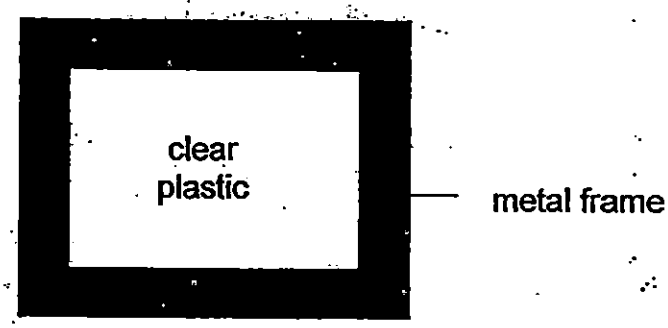
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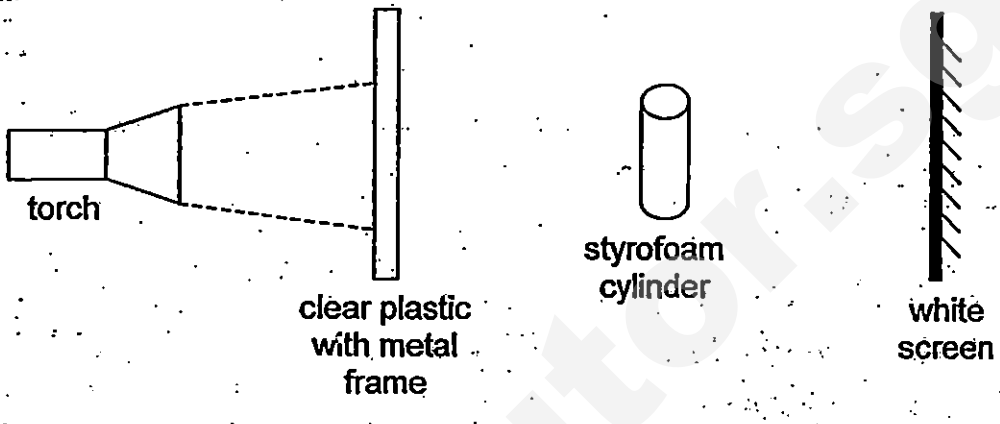
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following diagram.



He shone a torch on it and placed a styrofoam cylinder behind as shown in the following diagram.



Which of the following shows the shadow formed on the white screen?

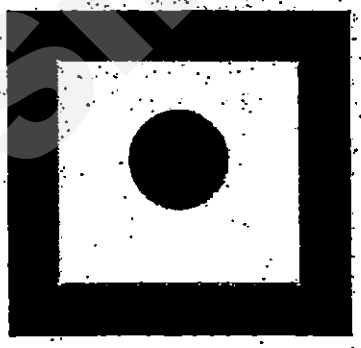
(1)



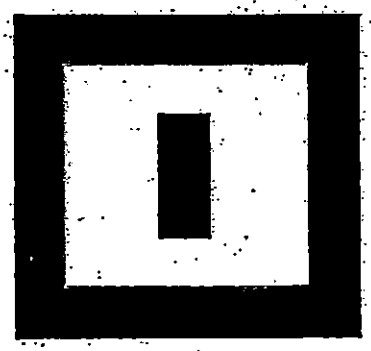
(2)



(3)



(4)



( )

~ End of Section A ~

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RIVER VALLEY PRIMARY SCHOOL
2015 Continual Assessment 2
PRIMARY 3

SCIENCE

(BOOKLET B)

Name : _____ Date: 01 / 09 / 2015

Class : P3 _____ Total Time for Booklet A & Booklet B : 1 hr 15 mins

INSTRUCTIONS TO CANDIDATES

1. Write your name, index number and class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For Section A, shade your answers for questions 1 to 10 in the Optical Answer Sheet (OAS) provided.
6. For Section B, write your answers for questions 11 to 18 in the space provided in the booklet.
7. The total marks for Booklet B is 25 marks.

Booklet A		/20
Booklet B		/25
Total		/45
Parent's signature		

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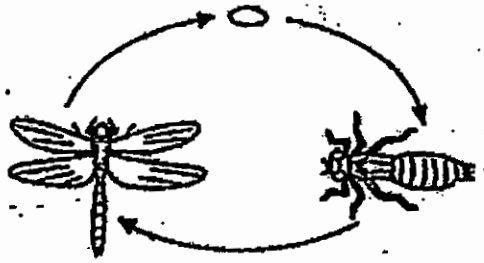
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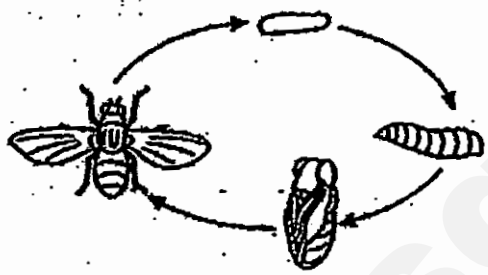
Section B (25 marks)

Write your answers to questions 11 to 18 in this booklet.

11. The diagrams below show the life cycles of Insect X and Y respectively.



Life cycle of Insect X



Life cycle of Insect Y

(a) Based on the diagram, state a difference between the life cycles of Insect X and Insect Y. (1m)

_____

_____

(b) Which insects (X or Y) has a similar life cycle with each of the following insects? (2m)

(i) Cockroach: _____

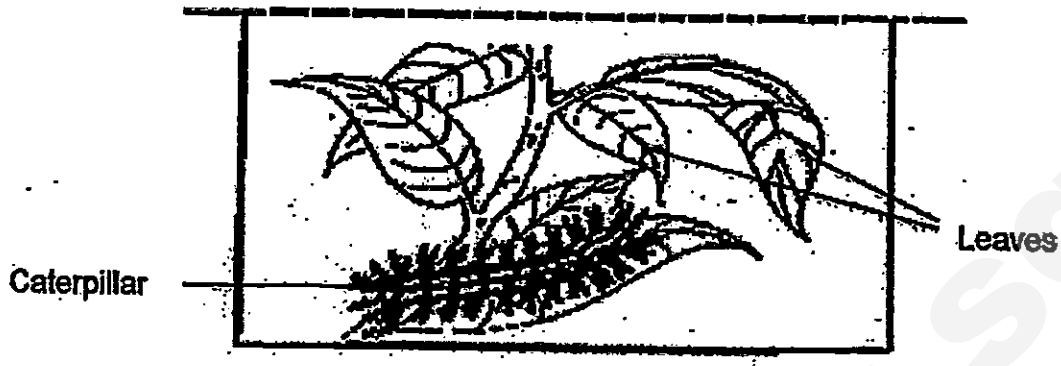
(ii) Grasshopper: _____

	3

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12. John wanted to find out how much food a caterpillar needs to eat so he sets up the experiment as shown below. He observed the set-up for a week.



He weighed the leaves daily and recorded it in the table below.

Day	Mass of leaves (g)
1	20
2	18
3	15
4	12
5	10
6	10
7	10

(a) John observed that by the end of the week, the caterpillar had already developed into a pupa. Based on the table above, from which day did the caterpillar **most likely** become a pupa? (1m)

Day _____

(b) Explain your answer in (a). (2m)

_____

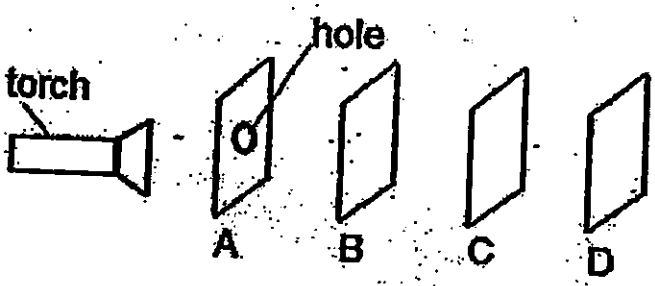
_____

	3

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13. Yi Ling set up an experiment with four different materials (A, B, C and D) as shown below.



When the torch was shone, she saw a bright patch of light on Material C.

(a) Classify the four materials using the table below. (2m)

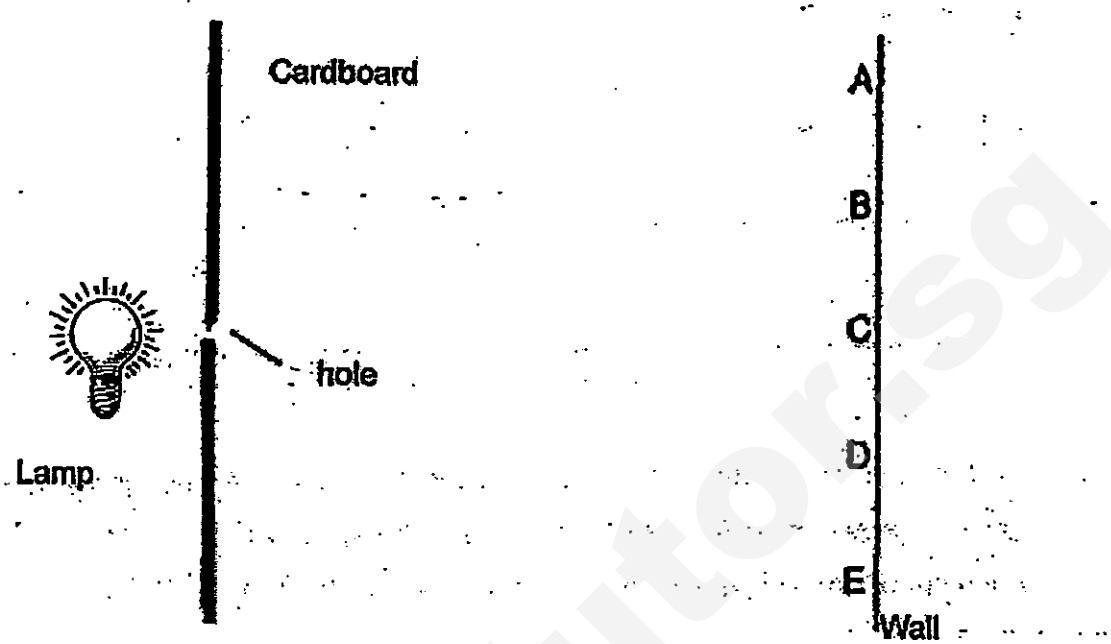
Transparent	Opaque	Not Possible to Tell

(b) Yi Ling then replaced Material C with a piece of clear plastic. Would she get the same results? Explain your answer. (1m)

	3

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14. Ali cut up a hole in a piece of cardboard and brought it into a dark room. He then set up his experiment as shown below.



(a) Which part of the wall (A, B, C, D or E) would Ali see a bright spot of light? (1m)

Part _____

(b) Give a reason for your answer in (a). (2m)

_____

_____

	3

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15. Mosquitoes are known to spread diseases. To prevent mosquitoes from breeding, the National Environment Agency advises people to change the water in their vases on alternate days.

(a) How does this help to prevent mosquitoes from breeding? (2m)

(b) Siti keeps a pet goldfish. Her mother saw the advice and suggests that Siti should change the water in the fish bowl every alternate days to prevent mosquitoes from breeding. Do you agree with Siti's mother? Explain your answer. (1m)

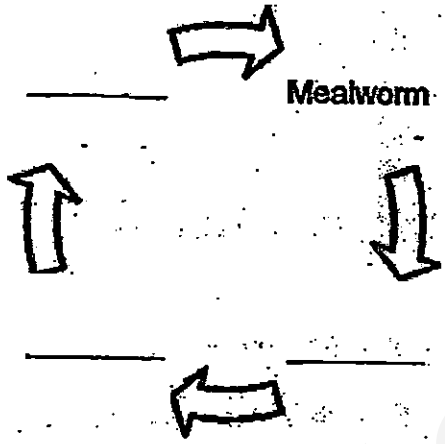
	3

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16. Ray observed a mealworm that his teacher gave him over a few weeks.

(a) Complete the life cycle of the mealworm below. (1m)



(b) On the 3rd day, he noticed that there was a clump of 'skin' in the container. Which process did the mealworm go through to produce that? (1m)

_____

(c) 2 weeks later, he found that the mealworm had turned white and it laid there without moving. He drew a picture of it and claimed that it was dead.



Do you agree with his claim? Why or why not (1m)

_____

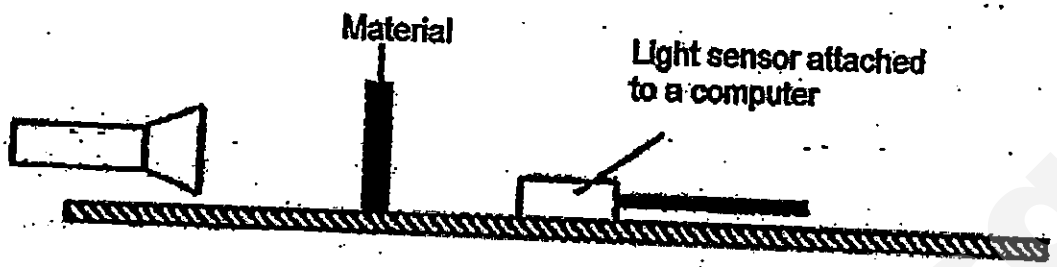
_____

	3

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17. Jane used a light sensor to measure the amount of light passing through different materials A, B and C.



She recorded her results in the table below.

Material	Amount of light (lux)
A	230
B	0
C	95
D	150

(a) Arrange the materials from the most transparent to the least transparent. (2m)

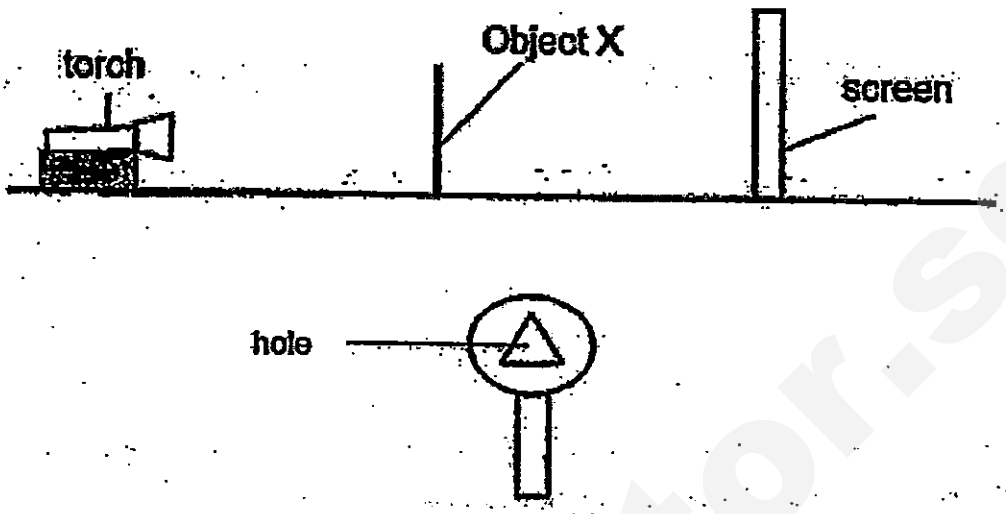
(Most transparent) → ____ → ____ → (Least transparent)

(b) Which material (A, B, C or D) could likely be wood? Give a reason for your answer. (1m)

	3

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18. Miss Tan placed object X, with a hole in the middle, in between a torch and a white screen as shown below.



Object X

(a) She observed a dark shadow formed on the white screen but a bright triangular light in the middle. Explain her observations. (2m)

2

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Miss Tan then asked her students to move the object closer to the torch They measured the distance between the torch and the object as well as the height of the shadow and recorded their findings in the table below.

Distance between lamp and object (cm)	Height of shadow (cm)
25	5
20	7
15	9

(b) Based on the above information, how does the height of the shadow change as the distance between the lamp and object decrease? (1m)

(c) Predict what will happen to the height of the shadow if the distance between the lamp and the object is more than 25cm.

	2

~ End of Paper ~

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EXAM PAPER 2015

SCHOOL : RIVER VALLEY

SUBJECT : P3 SCIENCE

TERM : CA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	1	2	3	2	2	1	2	3	4

11) a) Insect X has 3 stages while insect Y has 4 stages.

b) i) Insect X ii) Insect X

12)a) Day 5

b) Mass of leaves for day 5 ,6/7 are the same so in pupa stage it will hot feed. The mass of lea will remain the same.

13) a) B A D

C

b) She would not get the same results. If material C is transparent, the shadow will be cast on material D.

14)a) C

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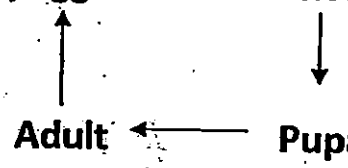
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b) Light travels in a straight line. Since C is a straight line from the light, Ali would see a bright spot of light at C.

15) a) Mosquitoes breed in stagnant water so changing water will flush away the mosquitoes' eggs and kill them.

b) I do not agree. Mosquitoes breed in stagnant water but fish keeps the water from being still.

16) a) Egg → Mealworm



b) The mealworm is going through moulting.

c) No. The mealworm had developed into the pupa. It does not move and continue growing and turn into adult.

17) a) A → D → C → B

b) Material B could likely be wood. It is because wood is opaque.

18) a) When light is blocked by an opaque object, shadow is formed. There is a triangular hole that allows light to pass through to form bright triangular light.

b) When the light source is near the object, it will become big and blur.

c) The shadow will be smaller.

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Rosyth School
Second Topical Test for 2015
SCIENCE
Primary 3

Name: _____ Total Marks: /30

Class: Pr 3 _____ Register No. _____ Duration: 30 minutes

Date: 27 August 2015 Parent's Signature: _____

Instructions to Pupils:

1. Do not open the booklet until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 2 parts, Part I and Part II.
4. For questions 1 to 10, write the correct answer in the brackets provided.
5. For questions 11 and 12, give your answers in the spaces provided in Part II.

	Maximum	Marks Obtained
Part I	10 marks	
Part II	5 marks	
Total	15 marks	

* This booklet consists of 8 pages.

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Practical Test

	Maximum	Marks Obtained
Total	15 marks	

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Part I (10 MARKS)

For each question from 1 to 10, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write the correct answer in the brackets provided. Each correct answer will score one mark.

1. Study the table below.

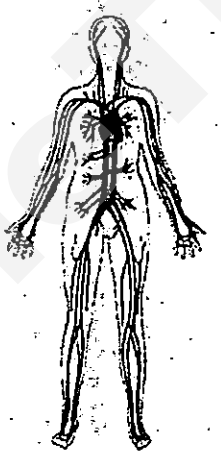
Digestive System	Circulatory System	Respiratory System
stomach	heart	lungs
small intestine	blood vessels	rib cage

Which of the following is grouped **wrongly**?

(1) heart (2) lungs

(3) rib cage (4) stomach ( )

2. Which of the following statement(s) describe(s) the system below?



A. It removes undigested food from the body.

B. It breaks down food into smaller substances.

C. It carries digested food, water and oxygen to all parts of the body.

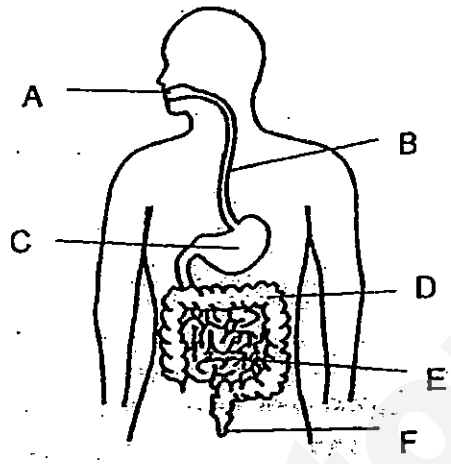
D. It takes oxygen into the body and removes carbon dioxide from the body.

1) C only 2) D only

3) A and B only 4) C and D only ( )

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3. Study the diagram below.



Which of the following shows how food travels through the digestive system before digested food enters the bloodstream?

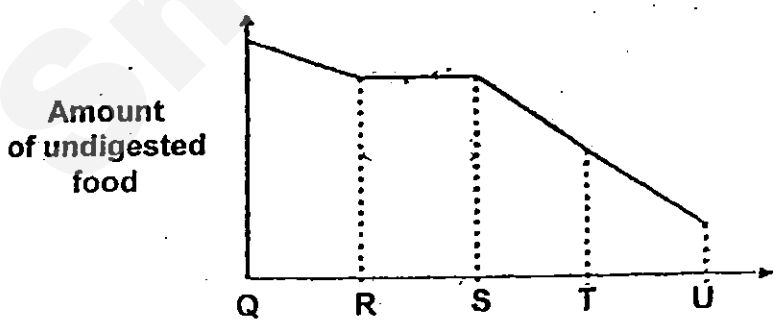
(1) A → B → C → D

(2) A → B → C → E

(3) B → C → E → D

(4) C → E → D → F ( )

4. The graph below shows the amount of undigested food as it travels through the human digestive system.



Based on the graph above, which part represents the gullet?

(1) QR (2) RS

(3) ST (4) TU ( )

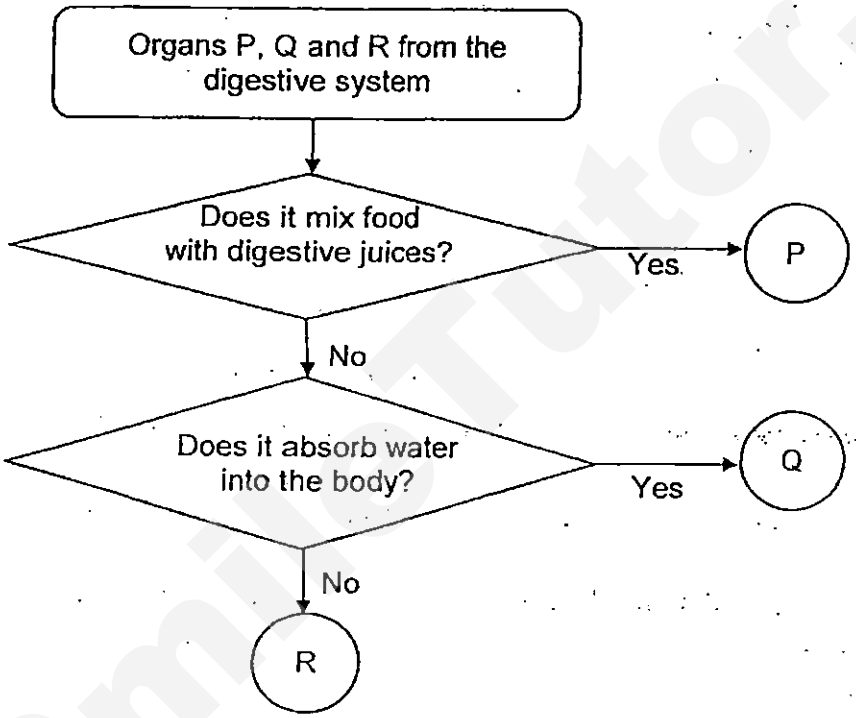
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5. Beatrice has been passing out watery waste. Which part of the digestive system is **not** working well?

(1) gullet (2) stomach
(3) small intestine (4) large intestine ( )

6. Study the chart below.



Which of the following is correct?

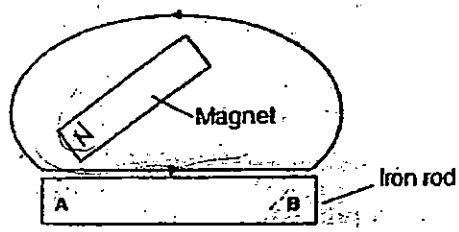
	P	Q	R
1)	gullet	small intestine	mouth
2)	mouth	stomach	anus
3)	small intestine	large intestine	gullet
4)	stomach	gullet	small intestine

( )

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7. Melvin wanted to magnetise an iron rod AB using a magnet.

He stroked the rod 20 times in the same direction with the magnet as shown in the diagram below.



To find out if the rod was magnetised, Melvin used the rod to attract some steel nails. It attracted two steel nails.

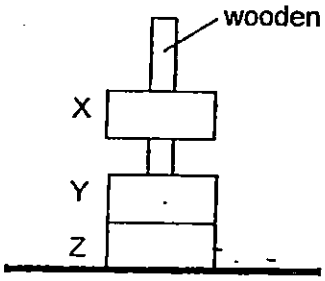
Melvin repeated the above experiment using another similar iron rod.
What should he do to the iron rod so that it could attract more steel nails?

(1) Stroke it from A to B for 5 times.
(2) Stroke it from A to B for 30 times
(3) Stroke it from B to A for 20 times.
(4) Stroke it with both poles of the magnet for 20 times each. ( )

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8. Albert placed 3 metal rings, X, Y and Z, through a wooden rod as shown below.



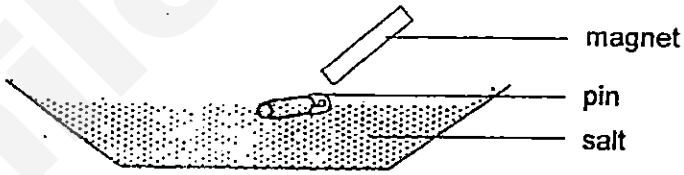
He made the following observations:

A: Metal rings X and Y did not touch each other.
B: Metal rings Y and Z touched each other.

Based on his observations above, which of the following(s) is/are **definitely magnet.**

(1) X only
(2) Z only
(3) X and Y only
(4) X, Y and Z ( )

9. Tricia tried to remove a pin from a tray of salt by using a bar magnet as shown in the diagram below.



She observed that she could not remove the pin.

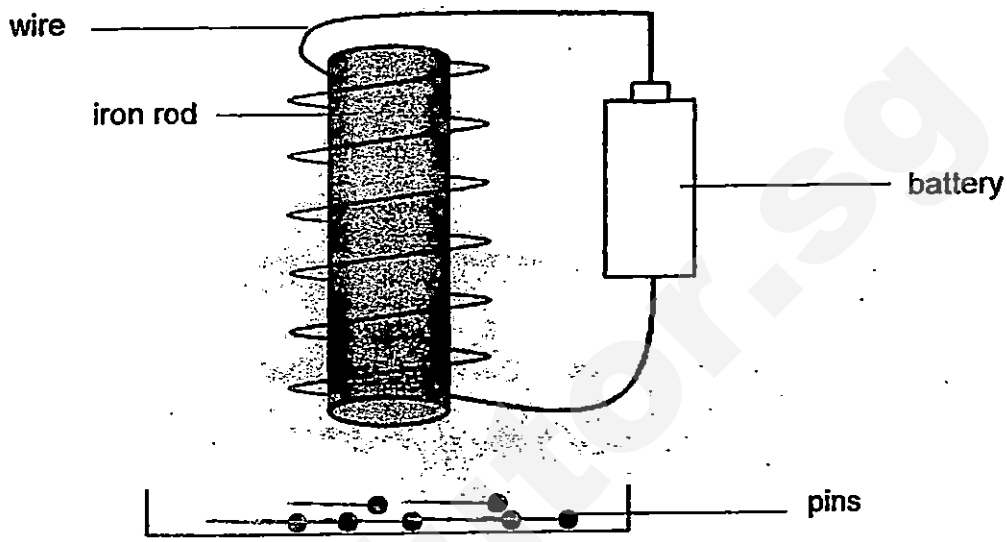
Which of the following are possible reasons for the above observation?

A: The magnet was not placed in the N-S direction.
B: The pin was not made of a magnetic material.
C: The magnetic strength of the bar magnet was too weak.

(1) A and B only
(2) A and C only
(3) B and C only
(4) A, B and C ( )

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10. Benson made an electromagnet using an iron rod as shown below. The iron rod was able to attract only four pins.



Which of the following(s) should he do to increase the number of pins that the electromagnet can attract?

A: Add one more battery to the set-up

B: Replace the iron rod with a copper rod.

C: Increase the number of coils around the iron rod.

(1) C only
(2) A and C only
(3) B and C only
(4) A, B and C

( )

End of Part I

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Part II (5 MARKS)

For questions 11 and 12, write your answers in the blanks provided.

11. Study the car frame as shown in the diagram below.



a) Name the human body system that serves the same function as the car frame. [1]

_____

b) How is the function of the car frame similar to the human system in part (a)? [1]

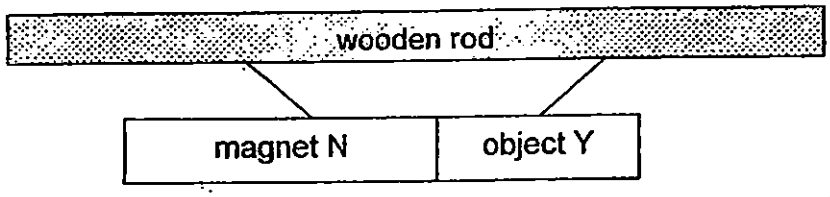
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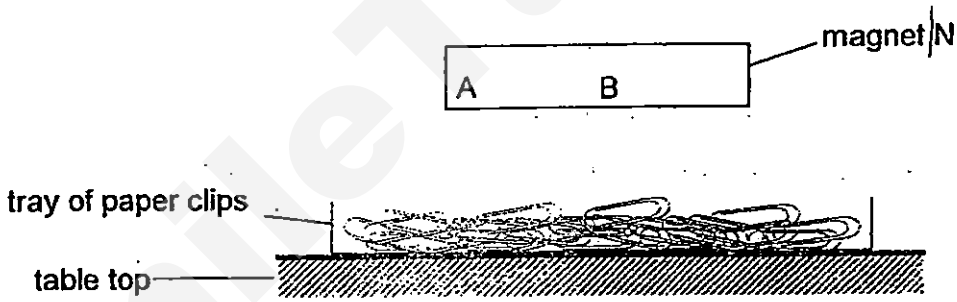
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12. Siti observed the positions of magnet N and object Y when hung freely on a wooden rod.



a) Siti said that object Y is a magnet based on the observation above. Do you agree? Explain why. [1]

Siti then moved magnet N near a tray of paper clips as shown below.



b) Which part of the magnet (A or B) attracted more paper clips? Explain why. [2]

End of Part II

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : ROSYTH SCHOOL
SUBJECT : SCIENCE
TERM : CA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	1	2	2	4	3	2	3	3	2

Q11a. Skeletal system Q11b. Both the car frame and the skeletal system gives the shape and supports the car or the body.

Q12a. No, because if object Y is a magnet it will repel.

Q12b. Part A attracted more paper clips because a magnet is the strongest at the poles, and 'A' is at the poles.

THE END

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Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 2 (2015)

PRIMARY 3

SCIENCE

BOOKLET A

Wednesday **4 November 2015** **1 hr 30 min**

Name: _____ ( ) Class: 3. ( )

INSTRUCTIONS TO PUPILS

1 Do not turn over the pages until you are told to do so.

2 Follow all instructions carefully.

3 There are 25 questions in this booklet.

4 Answer ALL questions.

5 Shade your answers in the Optical Answer Sheet (OAS) provided.

This question paper consists of 13 printed pages (inclusive of cover page).

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Booklet A (50 marks)

For each question from 1 to 25, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer on the Optical Answer Sheet. (25 x 2 marks)

---

1. Study the table below.

Group A	Group B
 Guitar	 Cat
 Plastic Cup	 Potted plant

Which one of the following headings is most suitable for Groups A and B?

	Group A	Group B
(1)	Harmful Things	Useful Things
(2)	Non-Living Things	Living Things
(3)	Natural Material	Man-made Material
(4)	Cannot make its own food	Can make its own food

2. Which one of the following statements is **false** about all living things?

(1) They can reproduce.

(2) They can make their own food.

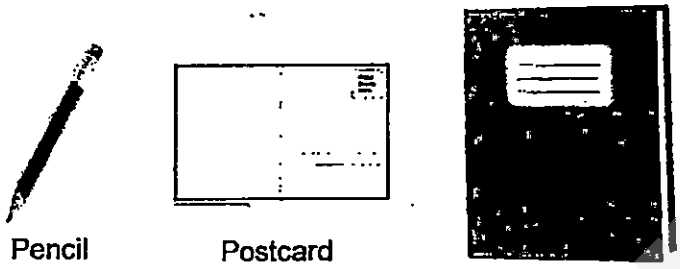
(3) They can respond to their surroundings.

(4) They need air, food and water to survive.

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3. Oscar and Nat were given the six stationery items shown below.





Each boy grouped the stationery differently from each other as shown in the classification tables below.

Oscar

Group 1	Group 2
Eraser	Exercise Book
Pencil	Postcard
Staples	Stapler

Nat

Group 1	Group 2
Eraser	Stapler
Exercise Book	Staples
Pencil	
Postcard	

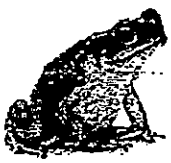
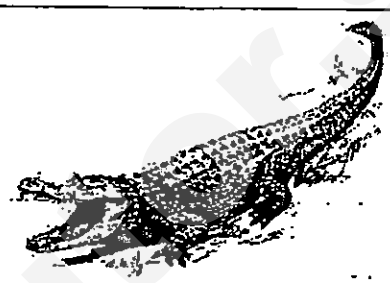
Nat grouped the stationery according to _____.

(1) their shape
(2) their weight
(3) what they are used for
(4) how much light can pass through them

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4. Rick classified six things into 2 groups based on a characteristic in the table below.

Group A	Group B
 Snail	 Eagle
 Toad	 Crocodile
 Fish	 Cockroach

Which one of the following items has been classified **wrongly**?

(1) Snail
(2) Toad
(3) Eagle
(4) Cockroach

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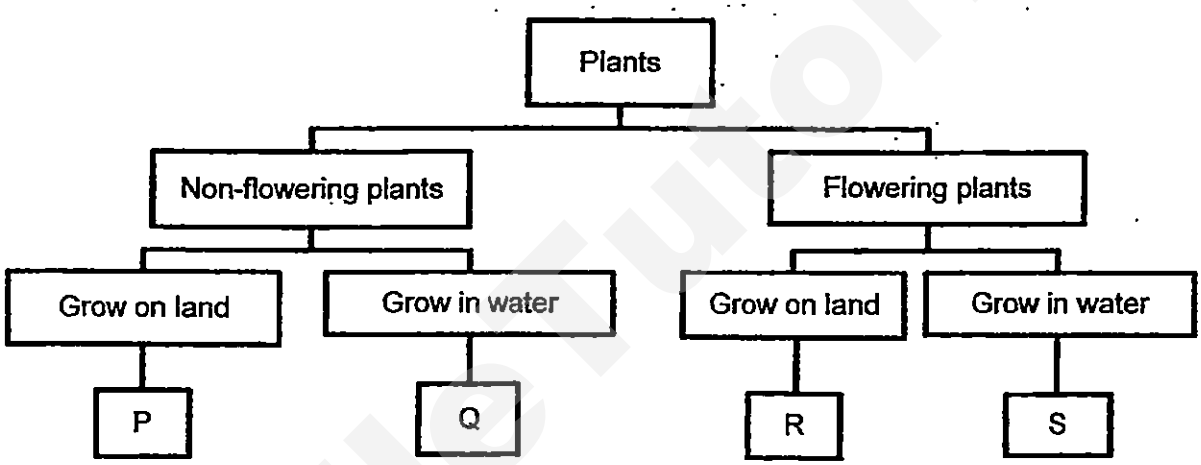
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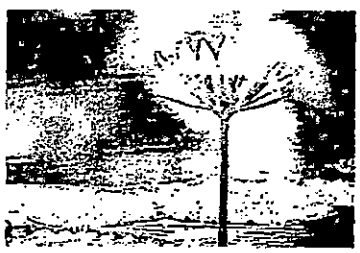
5. Which of the following statements about plants are correct?

A Plants grow towards light.
B Fern is a non-flowering plant.
C Only flowering plants have fruits.
D All flowering plants can produce flowers throughout the year.

(1) A, B and C only
(2) A, B and D only
(3) A, C and D only
(4) B, C and D only

6. Study the classification chart below.





Water Lily

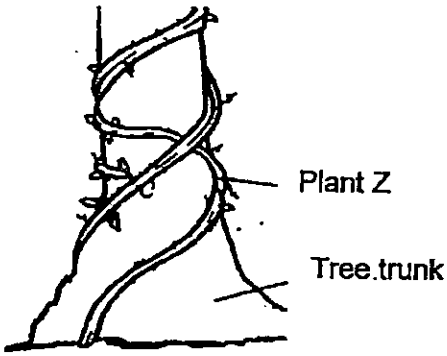
Which plant P, Q, R or S represents the Water Lily?

(1) P
(2) Q
(3) R
(4) S

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7. Ali and his friends found Plant Z growing on a tree trunk as shown below.



They made the following statements about Plant Z:

Ali: It makes food for the tree.
Bernard: It holds the tree firmly to the soil.
Candy: It supports the tree to stand upright.
Devi: It climbs up the tree trunk to get sunlight.

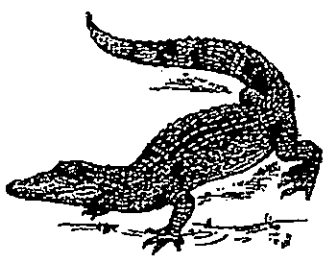
Who made the correct statement?

(1) Ali
(2) Devi
(3) Candy
(4) Bernard

8. Study the pictures below carefully.



Frog



Crocodile

How are these animals similar?

(1) They have scales.
(2) They have moist skin.
(3) They do not have constant body temperature.
(4) They breathe through their gills when they are in water.

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9. Which one of the following is **not** a characteristic of all birds?

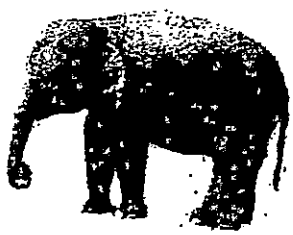
(1) They can fly.
(2) They lay eggs.
(3) They have a pair of legs.
(4) They have feathers to keep them warm.

10. Which of the following statements are true?

A Only birds have feathers.
B Only insects have 3 pairs of legs.
C Only fish have scales on their body.
D Only mammals give birth to their young.

(1) A and B only
(2) A and D only
(3) B and C only
(4) C and D only

11. Andy classified four animals into 2 groups as shown in the table below.

A	B
 Chicken  Clownfish	 Goat  Elephant

Andy classified the animals according to the _____.

(1) place they live
(2) way they move
(3) way they reproduce
(4) outer covering they have

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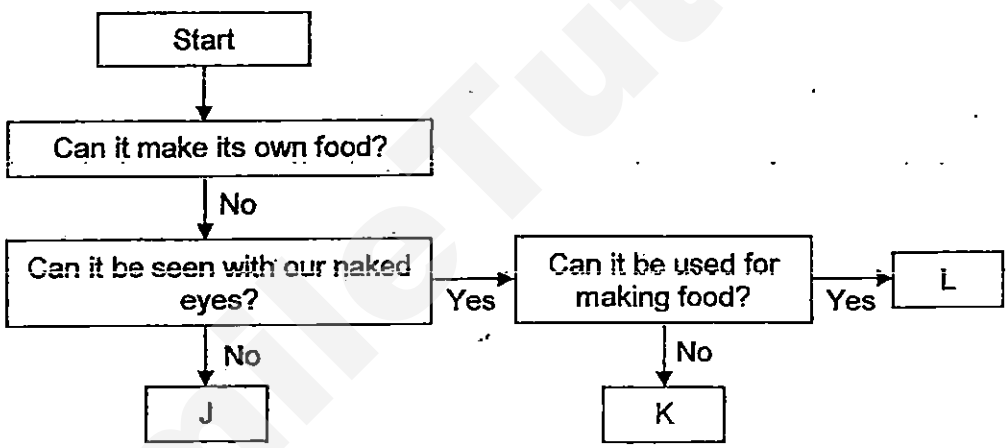
12. Four students did some research on bacteria. Their findings are listed in the table below.

Students	Findings
Alex	Bacteria are microorganism.
Ben	All bacteria are harmful to human.
Caleb	Bread mould is a type of harmful bacteria.
Dennis	Bacteria can be used for medicinal purposes.

Which student(s) made the correct statement(s) about bacteria?

(1) Alex only
(2) Alex and Dennis only
(3) Caleb and Dennis only
(4) Alex, Ben, Caleb and Dennis

13. Study the flowchart below.



What can L be?

(1) Moss
(2) Yeast
(3) Bacteria
(4) Antibiotics

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14. Mark wanted to conduct an experiment on the growth of mould. He sprinkled 5 drops of water on two similar pieces of cake, Cake M and Cake N. He then placed Cake M in the fridge and Cake N in the garden. He noted down his observation in the table below.

Day	Observations	
	Cake M	Cake N
2	No coloured patch	One small green-coloured patch
4	No coloured patch	Two small green-coloured patches
6	No coloured patch	Both patches grew bigger in size.
8	No coloured patch	Both patches grew bigger in size and changed colour from green to black.

The aim of Mark's experiment is to find out if mould needs _____.

(1) air to grow
(2) food to grow
(3) water to grow
(4) warmth to grow

15. The picture below shows a raincoat.



Raincoat

Plastic is a suitable material for making a raincoat because it is:

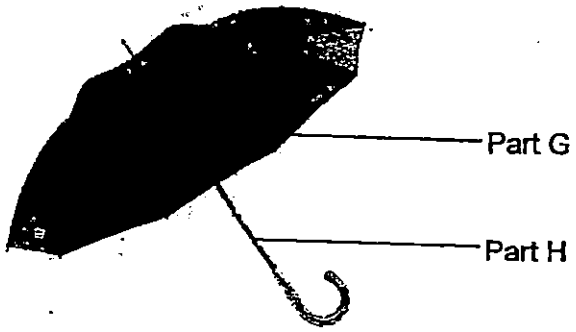
A stiff
B light
C waterproof

(1) A only
(2) B only
(3) B and C only
(4) All of the above

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16. The diagram below shows the different parts of an umbrella.



What materials are Parts G and H most likely made of?

	G	H
(1)	Rubber	Glass
(2)	Metal	Metal
(3)	Metal	Fabric
(4)	Glass	Fabric

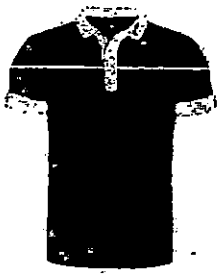
17. Which one of the following objects is **not** made from a material which comes from a plant?

(1)



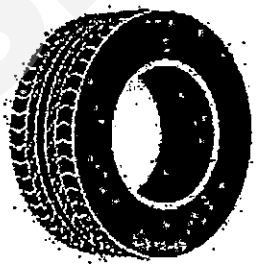
Wooden chair

(2)



Cotton T-shirt

(3)



Tyre

(4)



Glass bottle

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18. Which of the following statements best describe the function of our skeletal system?

A It supports the body.
B It takes air into the body.
C It gives the body its shape.
D It carries waste materials away from different parts of the body.

(1) A and C only
(2) A and D only
(3) B and C only
(4) B and D only

19. Which of the following parts are matched to the systems correctly?

	Digestive System	Respiratory System	Skeletal System
(1)	Mouth	Heart	Skull
(2)	Stomach	Blood Vessels	Muscles
(3)	Lungs	Nose	Backbone
(4)	Small intestine	Windpipe	Rib

20. Some pupils were discussing about the human digestive system.

Adrian: Digestion of food ends in the large intestine.
Ben: Chewing our food is part of the digestive process.
Clare: Digestive juices are not produced in the large intestine.
Daniel: All the organs in the digestive system are involved in digestion.

Whose statements are correct?

(1) Ben and Clare only
(2) Ben and Daniel only
(3) Adrian and Clare only
(4) Adrian and Daniel only

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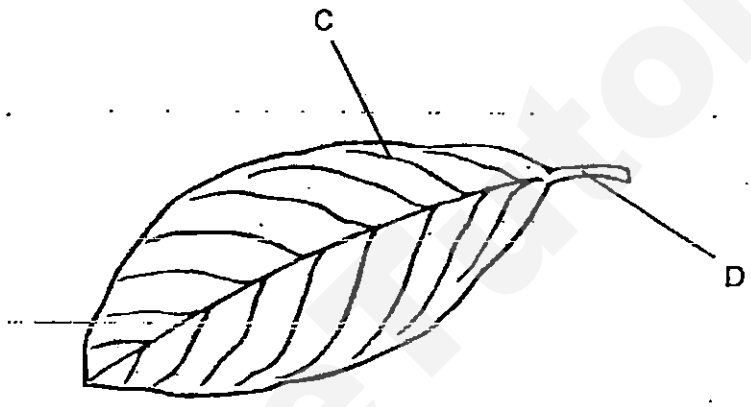
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21. What are the materials that are carried in the blood to all parts of the body?

A Water
B Oxygen
C Digested food
D Undigested food

(1) A and B only
(2) B, C and D only
(3) A, B and C only
(4) A, C and D only

22. Study the picture of a leaf below.



Leaf

Which of the following best represent Parts C and D?

	C	D
(1)	Stalk	Blade
(2)	Vein	Stalk
(3)	Stem	Vein
(4)	Blade	Stem

23. Which one of the following best describes a function of a leaf?

(1) Support the plant.
(2) Provide fruits for the plant.
(3) Absorb minerals for the plant.
(4) Help the plant to take in and give out gases.

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24. Which one of the following is **not** the stem of a plant?

(1)



Orange

(2)



Ginger

(3)



Sugarcane

(4)



Potato

25. George wanted to find out if the number of leaves affect the growth of the plants. He listed the variables for his experiment below.

A Type of plant
B Amount of water
C Location of plant
D Number of leaves

Which of the variables must be kept constant to ensure a fair test?

(1) B and D only
(2) A and C only
(3) A, B and C only
(4) A, B, C and D

End of Booklet A

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Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 2 (2015)

PRIMARY 3

SCIENCE

BOOKLET B

Wednesday **4 November 2015** **1 hr 30 min**

Name: _____ ( ) Class: 3 ( ) Parent's Signature: _____

INSTRUCTIONS TO PUPILS

1 Do not turn over the pages until you are told to do so.

2 Follow all instructions carefully.

3 There are 14 questions in this booklet.

4 Answer ALL questions.

5 The marks are given in the brackets [ ] at the end of each question or part question.

Booklet	Possible Marks	Marks Obtained
A	50	
B	40	
PBA	10	
Total	100	

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This question paper consists of 15 printed pages (inclusive of cover page).

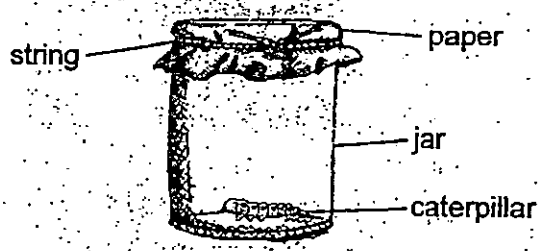
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Booklet B (40 marks)

For questions 26 to 39, write your answers in this booklet.
The number of marks available is shown in brackets [ ] at the end of each question or part question.

---

26. Alex placed a caterpillar in a jar that was sealed with paper and tied with a string as shown below.



(a) Alex observed that the caterpillar died after a few days. Explain why. [1]

_____

_____

(b) What could Alex have done to ensure that the caterpillar survives in the jar without escaping? [1]

_____

_____

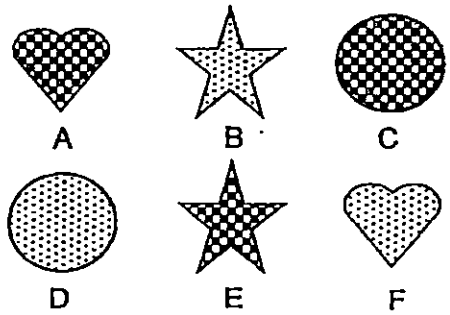
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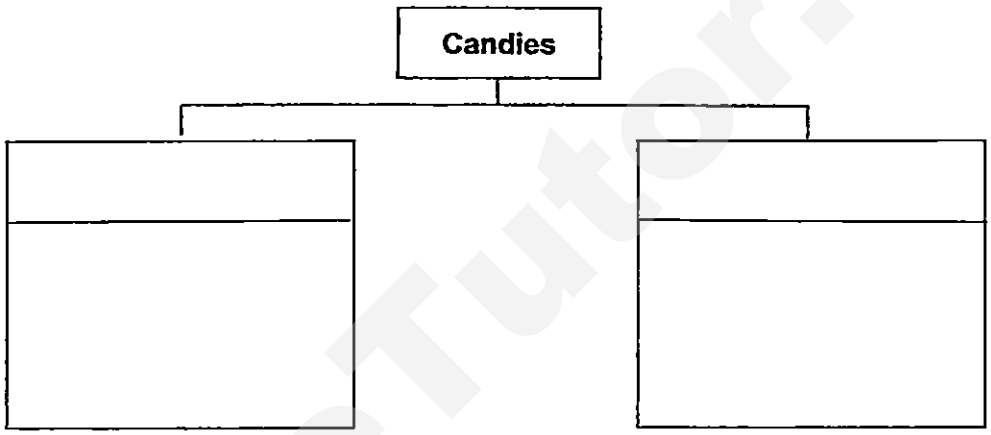
SCORE	/ 2

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27. Hanson was given six candies, A, B, C, D, E and F, as shown below.



(a) Classify the candies, A, B, C, D, E and F **equally** using the classification chart below. Write the letters A, B, C, D, E and F and give suitable sub-headings in the spaces provided. [2]



(b) State another characteristic that can be used to classify the candies, A, B, C, D, E and F. [1]

_____

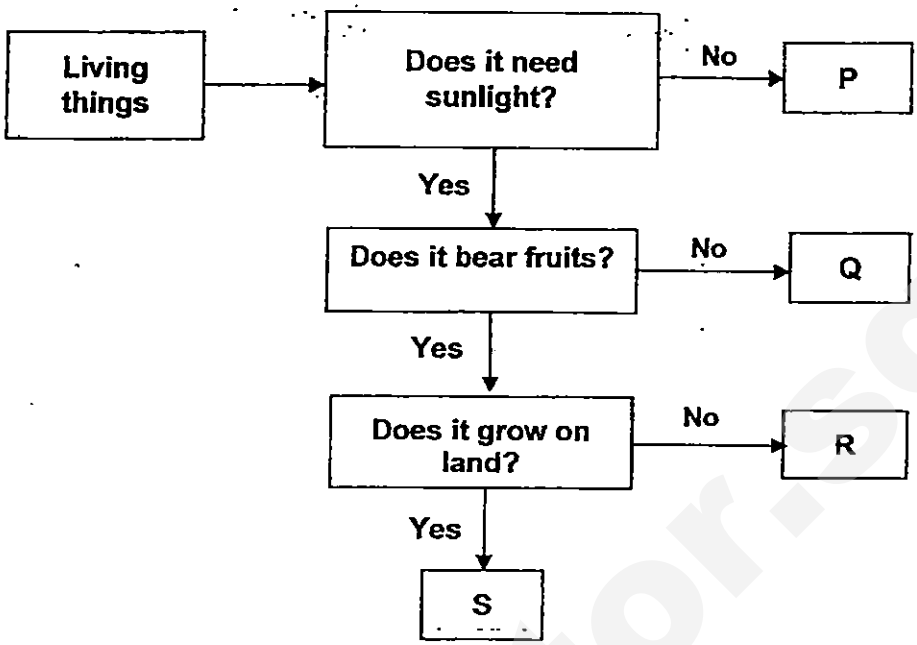
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SCORE / 3

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28. Study the flowchart below.



(a) Based on the flowchart, state all the characteristics of Q. [1]

_____

_____

(b) Based on the chart above, state a difference between P and R. [1]

_____

_____

(c) Which of the following letters, P, Q, R or S in the flowchart above describe the living things below? Write the correct letters in the boxes below. [1]

	Living Thing	Letter
(i)	Bird's Nest Fern	
(ii)	Mushroom	

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SCORE / 3

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29. Raju wanted to find out what type of soil is suitable for growing plants. He sets up two pots, G and H, as shown below.



G



H

[1]

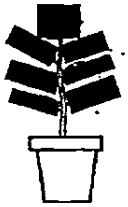
(a) Which variable(s) should Raju change?
Put a tick (✓) in the correct box(es) below.

Variable	Change
Type of plant	
Type of soil	
Amount of soil	
Amount of water given	

In another experiment, Raju placed 2 similar potted plants, S and T, in the garder as shown in the diagram below. He had covered all the leaves of Plant T with black cardboard and both plants were given the same amount of water each day for two weeks.



S



T

[1]

(b) What is the aim of this experiment?

_____

_____

[1]

(c) What will Raju observe about Plant T at the end of the two weeks?
Explain your answer.

_____

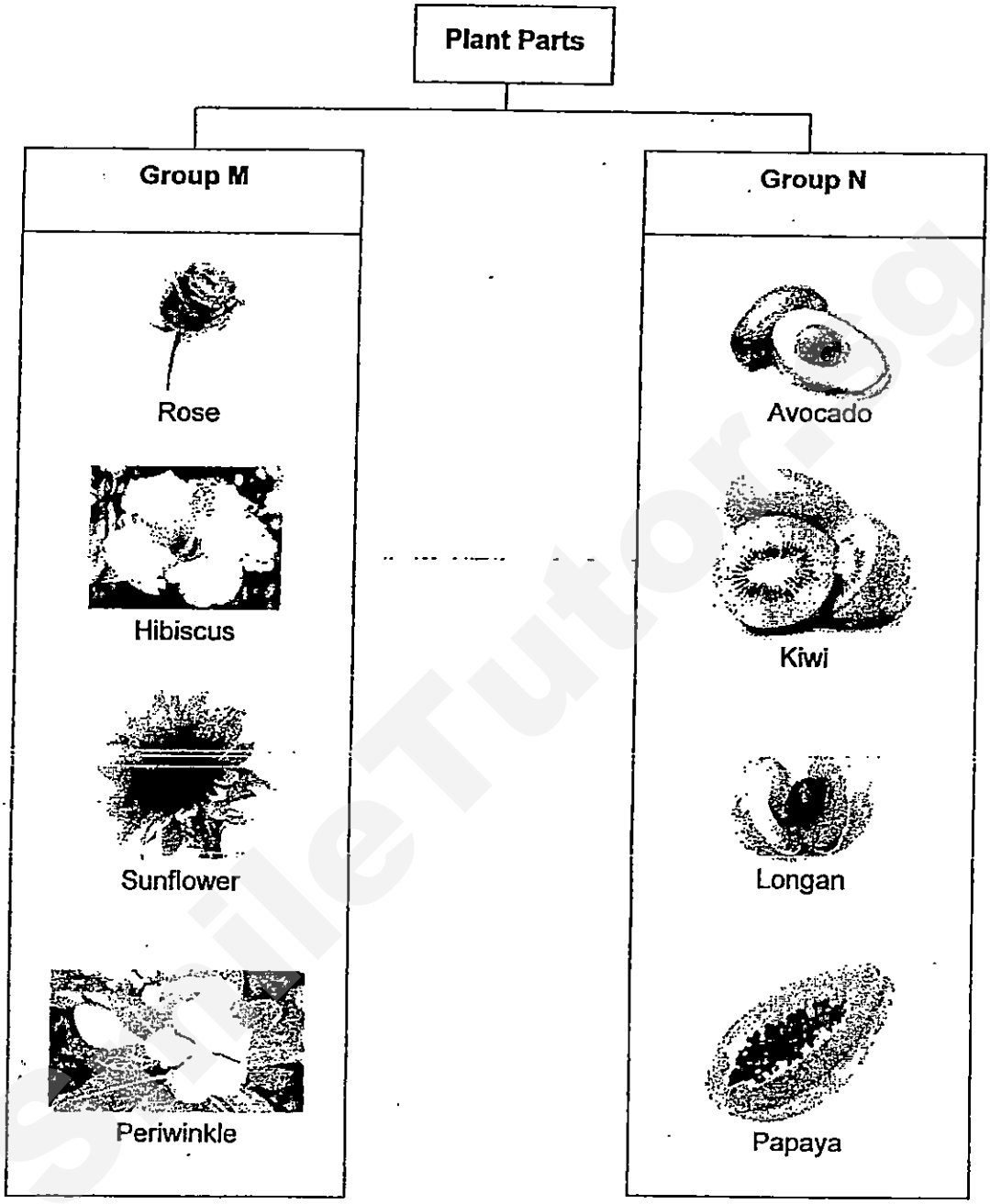
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SCORE	/ 3

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30. Sam found some plant parts and grouped them as shown below.



(a) Give a suitable heading for Group M and Group N based on their plant parts. [1]

Group M: _____

Group N: _____

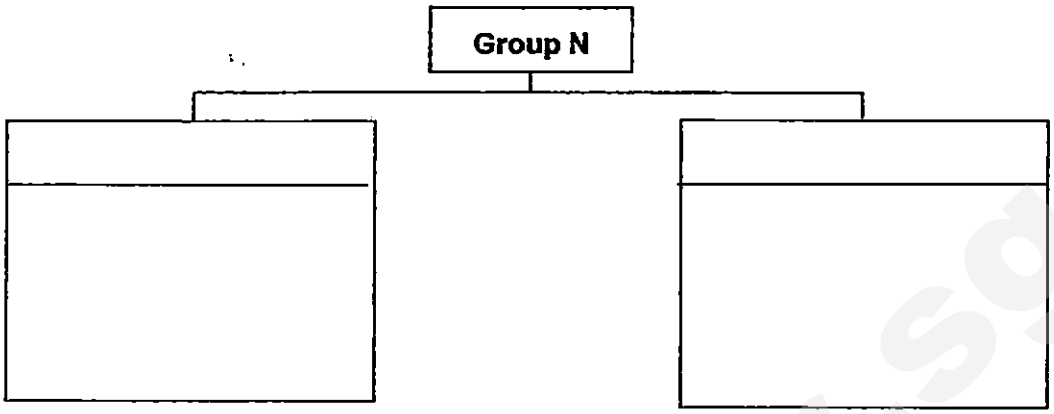
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SCORE	/ 1

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(b) Sam can further classify the plant parts in Group N into 2 groups. Give suitable sub-headings for the two new groups and complete the classification chart below by stating the plant parts.*(Do not compare their shape, colours and sizes)* [1]



The pictures below show two plant parts.



Bananas



Ixora flowers

(c) Based only on your observation of the bananas and Ixora flowers, state a similarity between them. [1]

_____

_____

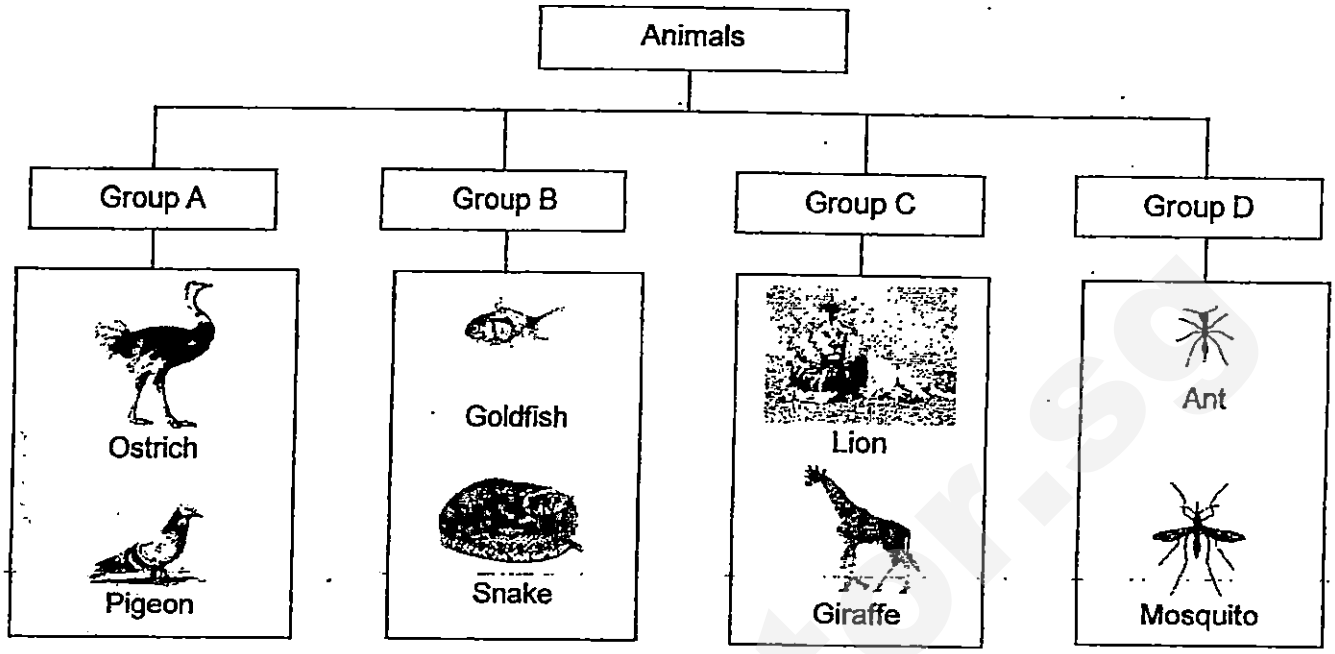
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SCORE 2

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31. Study the classification diagram below.



(a) How are the animals classified? [1]

_____

_____

(b) Give apprppriate sub-headings for Groups A and B. [1]

Group A: _____

Group B: _____

(c) The animals in Group B and C can be classified in another way from your answer in (a). Give a sub-suitable heading for each group. [1]

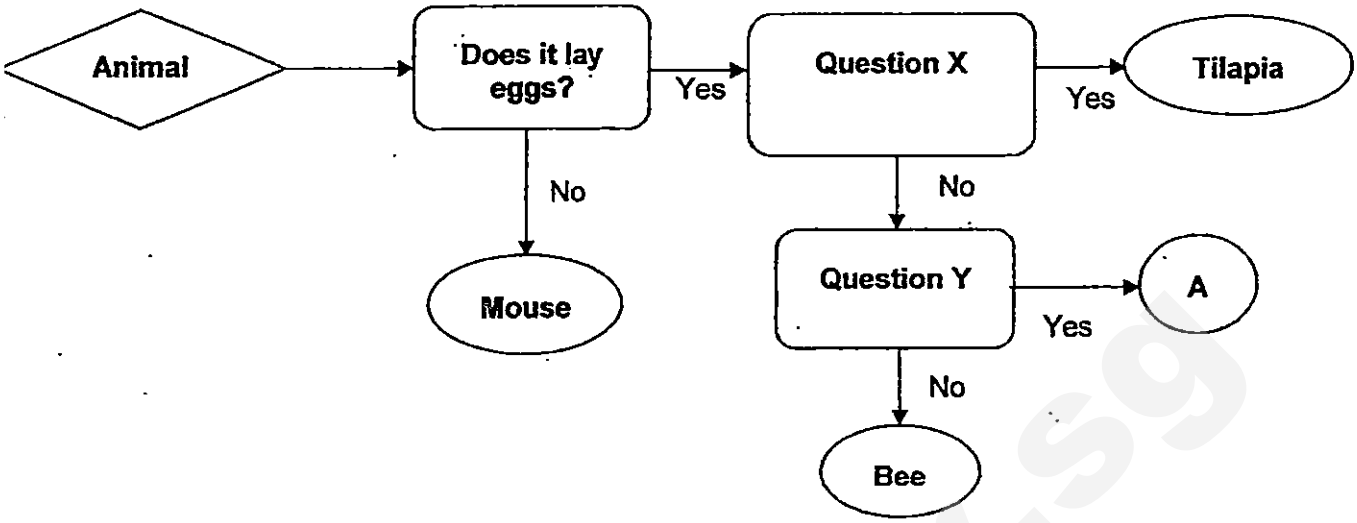
Group B	
Group C	

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SCORE	/ 3

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32. Study the flowchart below.



(a) Which of the following best represents Questions X and Y?
Write the letters X and Y in the correct boxes below. [1]

Question	Letter
Does it have legs?	
Does it suckle its young?	
Does it breathe through gills?	

(b) Based on the flowchart given, state one similar characteristic between the tilapia and the bee. [1]

_____

_____

(c) Give an example of Animal A [1]

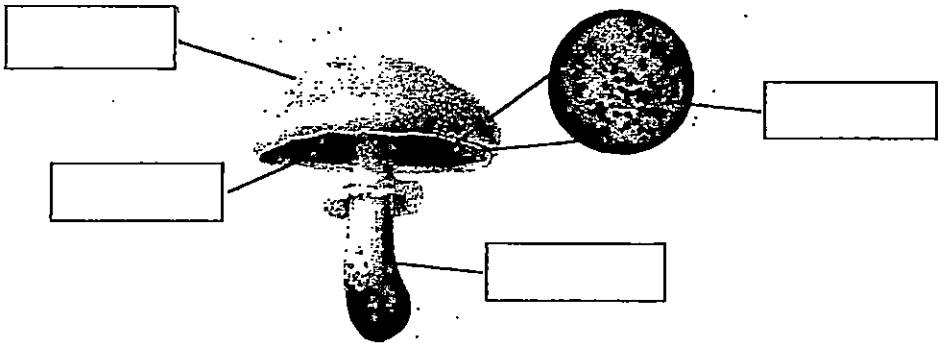
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SCORE	/ 3

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33. (a) Label the parts of a mushroom in the boxes in the diagram below. [2]

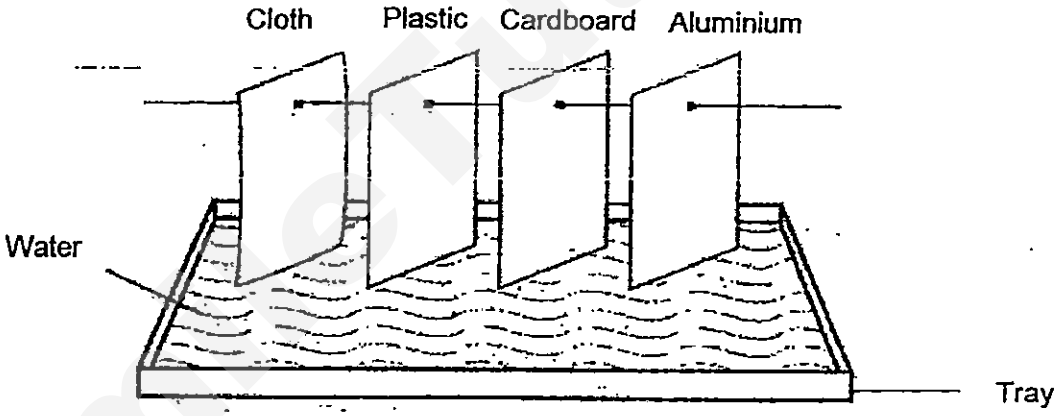


(b) State 3 conditions that must be present for fungi to grow. [1]

_____

_____

34. Pete conducted an experiment by hanging 4 strips of different materials. He allowed the ends of each strip to be soaked in a tray with water.



(a) Which material(s) will absorb water? [1]

_____

(b) What property of materials is Pete trying to find out in his experiment? [1]

_____

(c) State a variable he must keep the same for Pete's experiment to be fair. [1]

_____

(Go on to the next page)

SCORE	
	6

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35. Alex wanted to make a hammock for his dad as shown below. A hammock is commonly used for people to lie on.



Hammock

For his experiment, Alex chose four materials to make hammocks of the same size and placed bags of rocks on them. He recorded the total weight of rocks each hammock could hold before it started to tear.

Materials	Total weight of rocks (kg) hammock could hold before it tore
M	45
N	10
O	20
P	100

(a) Based on the table above, order the materials, M N, O and P, based on the weight they could hold before tearing. Start with the material that could hold the most weight to the least weight. [1]

_____ _____ _____ _____

Most weight held ⟶ Least weight held

(b) Which material, M, N, O or P is the most suitable for making a hammock for Alex's dad to sleep on? Explain your answer based on the property of the material that Alex was testing for his experiment. [1]

_____

_____

_____

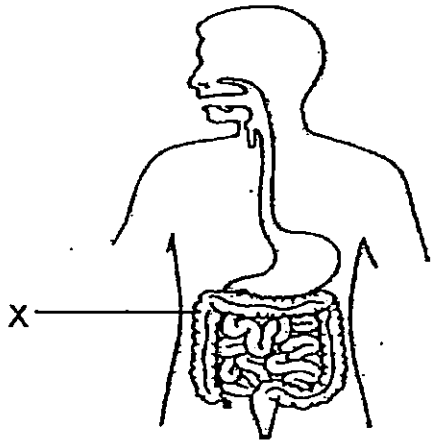
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SCORE	/2

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36. Study the diagram of the human digestive system below carefully.



(a) Name the part where digestion begins. [1]

_____

(b) What is the function of X? [1]

_____

_____

(c) What happens to the food after it has been completely digested? [1]

_____

_____

_____

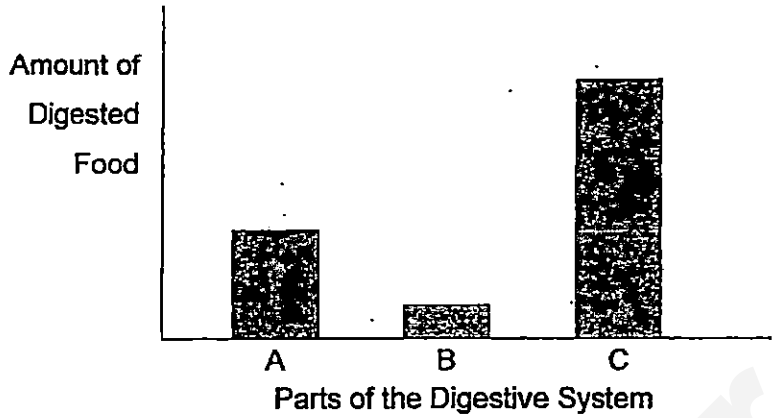
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SCORE	/ 3

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37. Jack ate 2 slices of bread for breakfast. A, B and C are parts of the digestive system where digestive juices are present.



(a) Based on the graph above, name the parts, A, B and C, of the digestive system where the digestive juices are found. [$1\frac{1}{2}$]

Parts of the Digestive System	
A	
B	
C	

(b) Based on the graph above and description of the parts of the digestive system below, match the descriptions to parts A, B and C. Write the letters, A, B and C in the correct boxes. [$1\frac{1}{2}$]

Description	Part
Digestion of food is completed.	
Food is chewed into smaller pieces.	
Food is digested further and mixed with other digestive juices.	

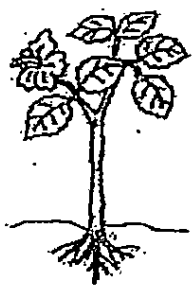
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SCORE	/ 3

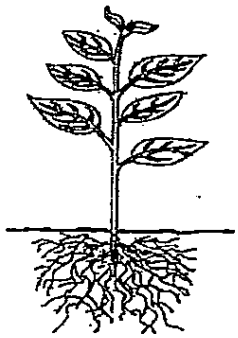
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38. Jason planted two plants, G and H in the ground as shown below.



Plant G



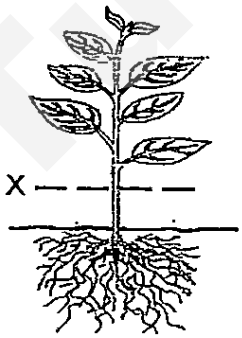
Plant H

(a) Which plant, G or H, will be more difficult to pull out from the ground? Give a reason for your answer. [1]

_____

_____

Jason decided to transfer Plant H into a pot. He cut the plant at point X as shown below and transferred the upper part of the plant into a pot.



Plant H

(b) He placed the pot in his garden and watered it daily. A few days later, he observed that Plant H started to wilt. Explain why. [1]

_____

_____

(c) Besides your answer in (b), state another function of the roots of a plant. [1]

_____

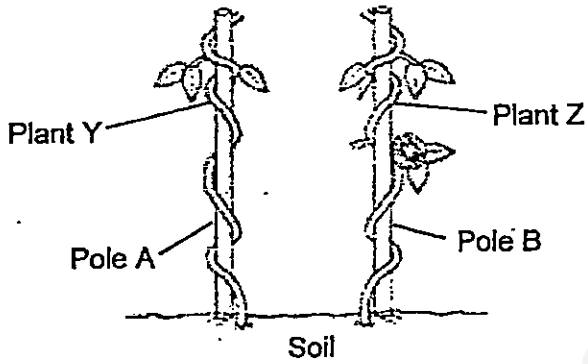
_____

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SCORE	
	3

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39. In an experiment, Lionel planted two similar plants, Plant Y and Plant Z in the garden. He inserted two poles, A and B, pole A near Plant Y and pole B near Plant Z. After two months, he observed that Plant Y and Z grew around the poles as shown below.



(a) Explain clearly how the poles help Plants Y and Z to grow. [1]

_____

_____

_____

(b) State one variable that he should keep the same for a fair experiment. [1]

_____

Lionel then removed Pole A. After 3 days, he observed that Plant Y started to climb Pole B.

(c) Based on his observation, state one characteristic of living things displayed by Plant Y. [1]

_____

End of Paper

SCORE	
	3

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : ANGLO CHINESE SCHOOL (JUNIOR)
SUBJECT : SCIENCE
TERM : SA2

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
2	**2**	**3**	**2**	**1**	**4**	**2**	**3**	**1**	**1**
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
3	**2**	**2**	**4**	**3**	**2**	**4**	**1**	**4**	**1**
Q21	Q22	Q23	Q24	Q25					
3	**2**	**4**	**1**	**3**					

Q26a. The caterpillar was lack of air, food and water .

Q26b. Alex could have put food and water in the jar and also a few small holes on the paper .

Q27a. With black squares – A E C Q27a. With black circles – D B F

Q27b. Shapes

Q28a. It needs sunlight and does not bear fruits.

Q28b. P does not need sunlight but R needs. Q28c. (i) Q (ii) P

Q29a. Amount of water given. Q29b. Sunlight to grow.

Q29c. Plant T will die. It does not has its leaves to help it make food.

Q30a. Group M: Flowers Group N: Fruits

Q30b. One seed – Avocado / longan

Q30b. Many seeds – kiwi / papaya

Q30c. They are in bunches.

Q31a. They are classified to their outer coverings.

Q31b. Group A: Have feathers Group B: Have scales

Q31c. Group B – Lay eggs Group C : give birth

Q32a. Y / X Q32b. They lay eggs Q32c. Spiny anteater

Q33a. **SEE PICTURE - next page.** Q33b. It needs warmth, shades and moisture.

Q34a. Cloth and cardboard Q34b. It is the absorbency.

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Q34c. The size of each material

Q35a. P , M, O, N Q35b. P. It is able to hold the most weight.

Q36a. Mouth Q36b. It absorbs the water from the undigested food.

Q36c. It will be digested further and mixed with other digestive juices.

Q37a. A-Stomach B- Mouth C-Small intestine Q37b. C , B , A

Q38a. Plant H - Its roots are spread all over.

Q38b. It has no roots to absorb the water and minerals from the ground.

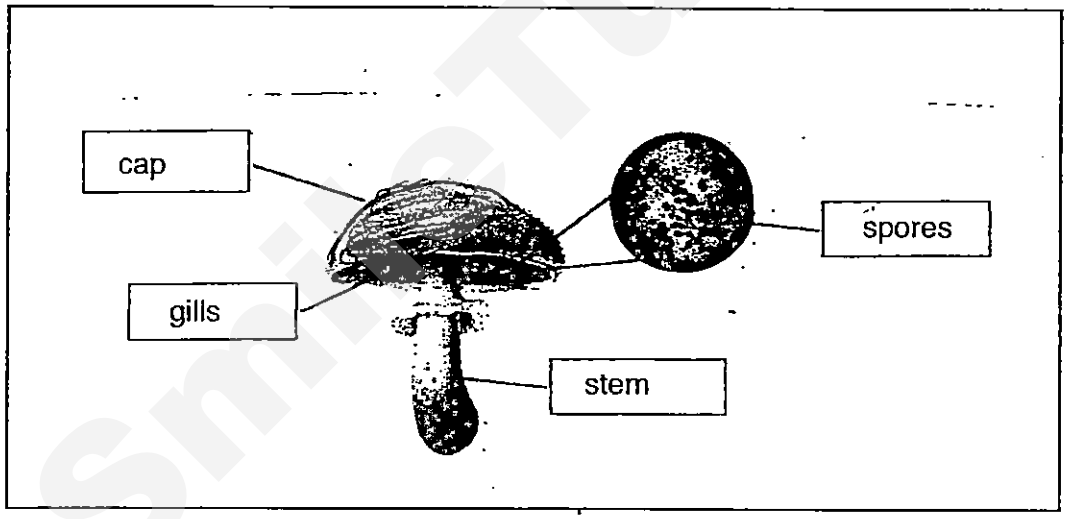
Q38c. It holds the plant firmly to the ground.

Q39a. The plant will climb onto the pole and get enough sunlight to make food.

Q39b. The amount of water.

Q39c. Living things can respond to changes.

2 33a



THE END

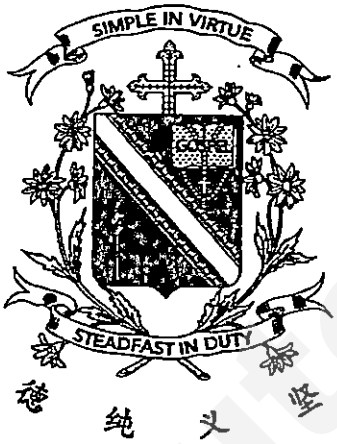
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Name: _____( )

Class: Primary 3 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL



Primary 3
Semestral Assessment 2 – 2015
SCIENCE

BOOKLET A

29 Oct 2015

Total Time for Booklets A and B: 1 hour 30 minutes

24 questions
48 marks

Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

This booklet consists of 14 printed pages.

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Section A (24 x 2 marks = 48 marks)

For each question from 1 to 24, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). **Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet provided.**

1. Which of the following shows the characteristics of living things?

A Water flowing in the rivers.
B A cat gives birth to its young alive.
C A seed developing into an adult plant.
D A rubber band becomes bigger when stretched.

(1) A and B only
(2) B and C only
(3) C and D only
(4) A, B and D only

2. The table below shows some items being classified.

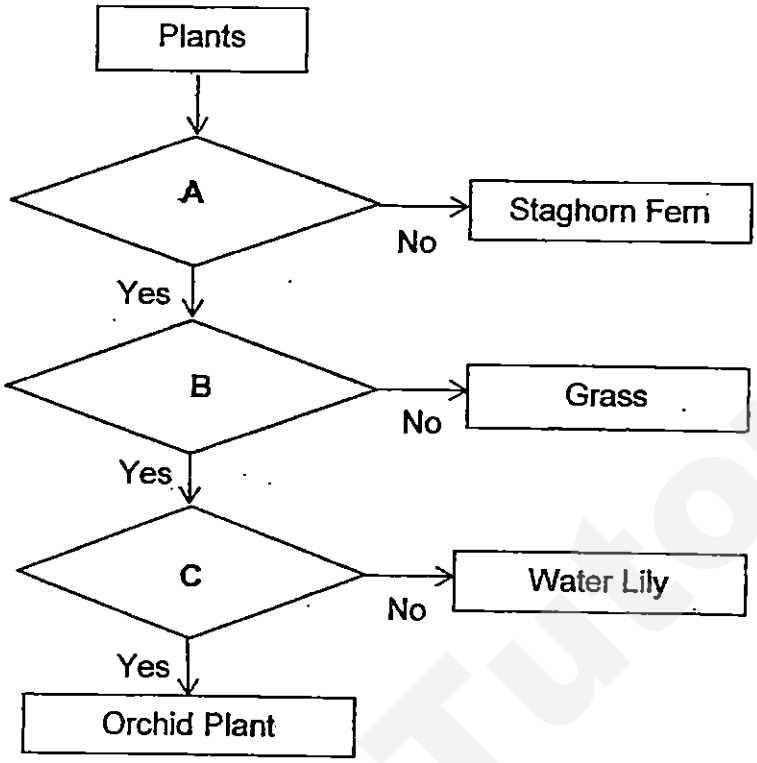
Living Things	Non-living Things
snail	stars
mushroom	seed
bread mould	dried leaves

Which one of the above items has been grouped **incorrectly**?

(1) Snail
(2) Stars
(3) Seed
(4) Dried leaves

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3. Study the flowchart given below carefully.



Which of the following correctly represents questions for A, B and C?

	A	B	C
(1)	Does it reproduce from spores?	Does it live on land?	Does it bear flowers?
(2)	Does it reproduce by seeds?	Does it bear flowers?	Does it live in water?
(3)	Does it reproduce from spores?	Does it bear flowers?	Does it live in water?
(4)	Does it reproduce by seeds?	Does it have a strong stem?	Does it live on land?

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4. Some organisms, A, B, C and D, have common characteristics shown in the table below.

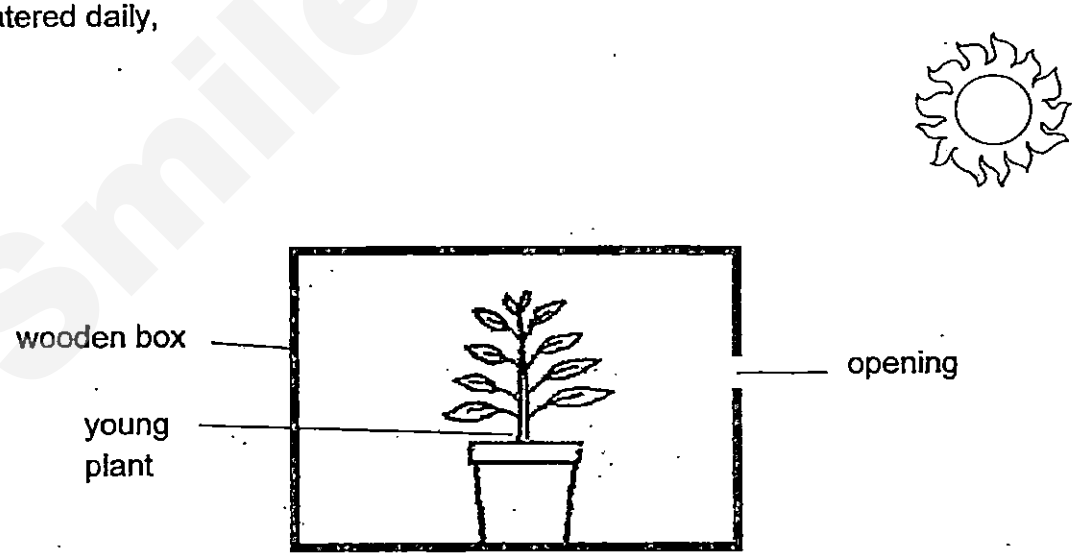
A tick (✓) in the box indicates the presence of a certain characteristics in each organism.

Characteristics	Organisms			
	A	B	C	D
Has leaves	✓		✓	
Reproduce by seeds			✓	
Bears flower				
Has a cap		✓		
Reproduce by spores	✓	✓		✓

Which two of the above organisms, A, B, C and D, are most likely to be fungi?

(1) A and B
(2) A and C
(3) B and D
(4) C and D

5. The diagram below shows a potted young plant placed in a wooden box with an opening. The box is placed near an open window and the potted plant is watered daily,



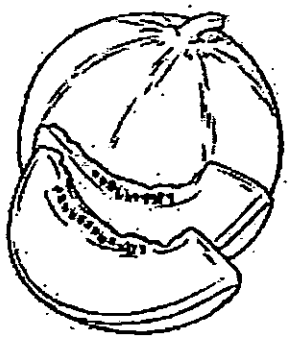
Which one of the following statements would most likely be observed after one week?

(1) The plant dies.
(2) The plant did not grow taller.
(3) The plant grows towards the opening.
(4) The plant grows away from the opening.

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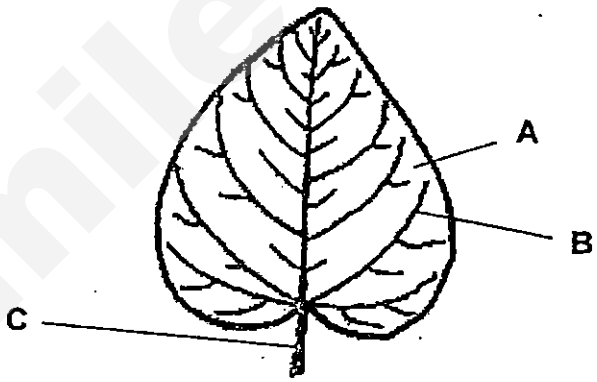
6. The diagram below shows the fruit of a plant.



Based on the above diagram, which one of the following statements below can be inferred about the plant?

(1) It has a strong stem.
(2) It is a flowering plant.
(3) It has poisonous leaves.
(4) It reproduces from spores.

7. The diagram below shows a leaf.



Which one of the following best represents parts, A, B, and C, of the above leaf?

	A	B	C
(1)	Leaf vein	Leaf stalk	Leaf edge
(2)	Leaf stalk	Leaf blade	Leaf vein
(3)	Leaf edge	Leaf stalk	Leaf blade
(4)	Leaf blade	Leaf vein	Leaf stalk

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8. Pauline observed that the fish in a tank were swimming as shown in diagram A. Diagram B showed what happened when she tapped gently on the tank with her finger.

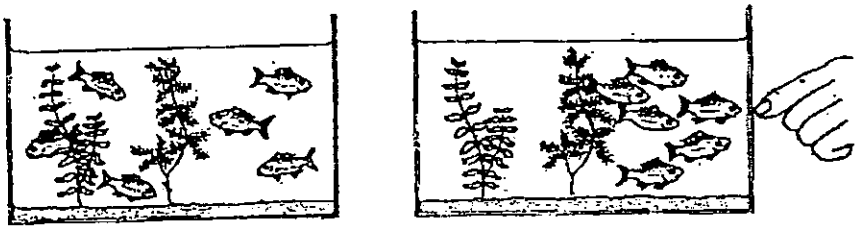


diagram A diagram B

Based on the behaviour of the fish, what did she learn about living things?

A Living things can grow.
B Living things can reproduce.
C Living things can move on their own.
D Living things can respond to changes.

(1) A and B only
(2) C and D only
(3) A, B and C only
(4) B, C and D only

9. Anna grouped the following organisms into two groups, X and Y, as shown in the table below.

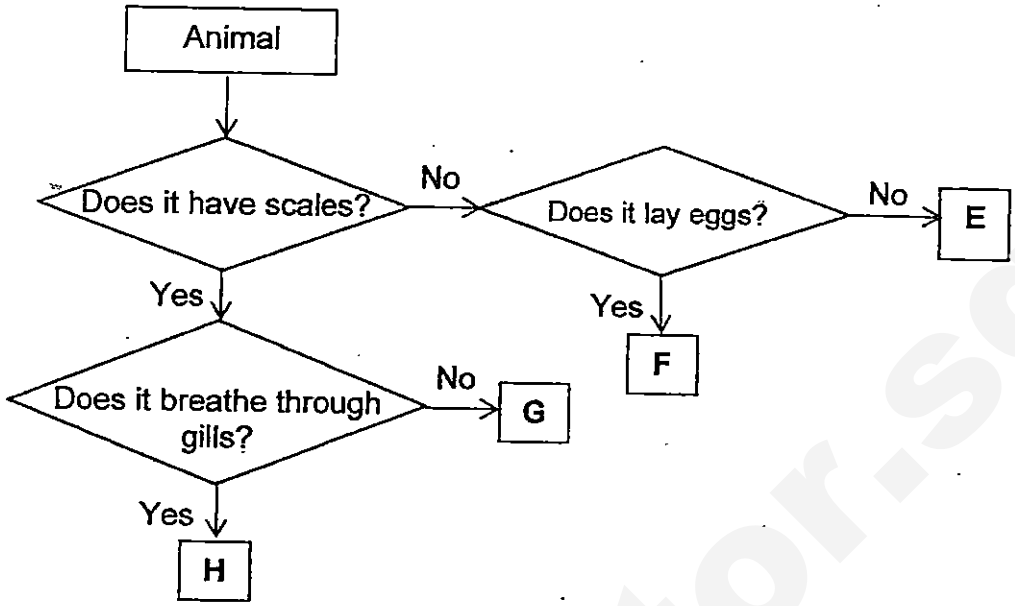
X	Y
bat mosquito grasshopper	whale salmon dolphin

Based on the classification table above, which of the following is the most suitable headings for X and Y?

	X	Y
(1)	Can fly	Cannot fly
(2)	Lay eggs	Give birth to young alive
(3)	3 body parts	2 body parts
(4)	Hard outer covering	Scales

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10. Study the flowchart below.



Which of the following is correctly represented by E, F, G and H?

	E	F	G	H
(1)	Kangaroo	Pigeon	Snake	Goldfish.
(2)	Penguin	Bat	Dolphin	Horse
(3)	Platypus	Emu	Seahorse	Man
(4)	Lizard	Butterfly	Whale	Guppy

11. Jane went to the zoo and observed animal Q on a branch of a tree. She recorded her observations of the ~~animal~~ organism as shown in the box below.

Q has 3 body parts.
Q has 3 pairs of legs.
Q has 2 pairs of wings.
Q has a pair of antennae.

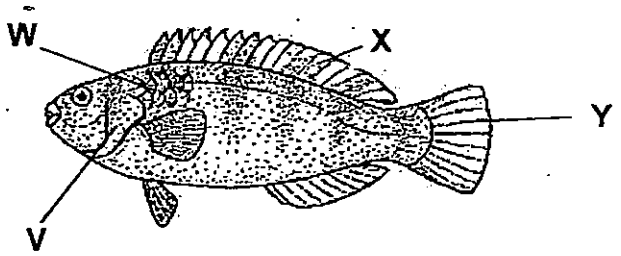
Based on the description above, which one of the following best represents animal Q.

(1) Bat
(2) Eagle
(3) Spider
(4) Grasshopper

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12. The diagram below shows a fish.



Which of the following is correctly represented by V, W, X and Y?

	V	W	X	Y
(1)	Gill	Scales	Tail	Fin
(2)	Gill cover	Scales	Fin	Tail
(3)	Gill	Skin	Fin	Tail
(4)	Gill cover	Skin	Tail	Fin

13. The diagram below shows a rabbit.



Four statements were made about the rabbit.

A It feeds on plants only.
B It has strong legs to jump.
C It feeds its young with milk.
D It has thick hair to keep itself warm.

Which of the above statements best describe the rabbit as a mammal?

(1) A and C only
(2) A and D only
(3) B and C only
(4) C and D only

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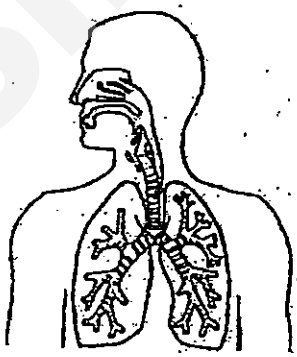
14. Which of the loaves of bread will turn mouldy fastest?

(1)	(2)	(3)	(4)
 In a sealed plastic bag	 On a plate	 On a plate	 In a sealed plastic bag
Condition: toasted bread placed in the fridge	Condition: moist bread placed in the garden	Condition: moist bread placed in the fridge	Condition: toasted bread placed in the garden

15. Which one of the following statements about bacteria and fungi is **not** correct?

(1) Some fungi can be eaten.
(2) Some bacteria cause people to be ill.
(3) All fungi feed on dead or living matter.
(4) All bacteria and fungi are microorganisms.

16. The diagram below shows one of the body systems in the human body.



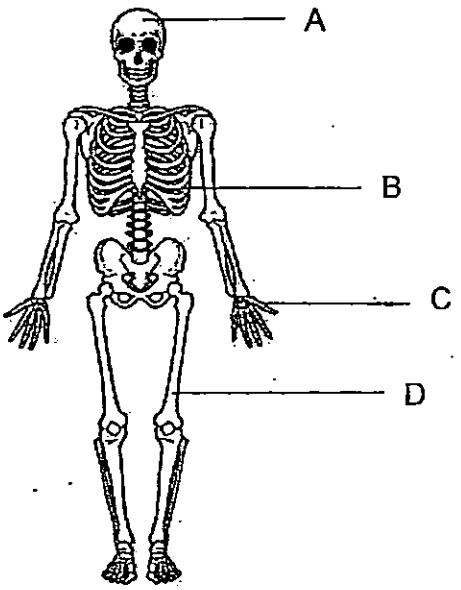
One of the functions of the above body system is to _____.

(1) give shape to the body
(2) enable the body to move
(3) take in air from the surroundings
(4) transport digested food around the body

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17. The diagram below shows the human skeletal system.



Which of the following correctly matches parts, A, B, C and D, to their general functions?

	Protection for the organs	Helps the body to move
(1)	A	B, C and D
(2)	A and B	C and D
(3)	C and D	A and B
(4)	A, B and C	D

18. The classification table below shows three body systems and their parts.

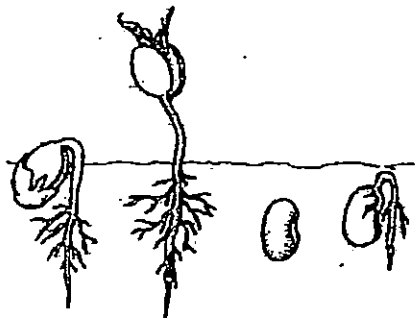
Circulatory system	Respiratory system	Skeletal system
Blood vessels	Nose	Backbone
A	Windpipe	Ribs
	B	C

Which one of the following is correctly represented by A, B and C?

	A	B	C
(1)	lungs	heart	muscles
(2)	heart	lungs	skull
(3)	skull	heart	lungs
(4)	heart	skull	muscles

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19. The diagrams below show the stages in the growth of a green bean plant.



Which one of the following shows the correct stages in the growth of a green bean plant?

(1) C ⟶ D ⟶ A ⟶ B

(2) C ⟶ A ⟶ D ⟶ B

(3) D ⟶ A ⟶ C ⟶ B

(4) D ⟶ C ⟶ A ⟶ B

20. The diagram below shows part of an adult and a young plant.



adult plant young plant

Based on what is observable from the diagram above, which of the following statements are true?

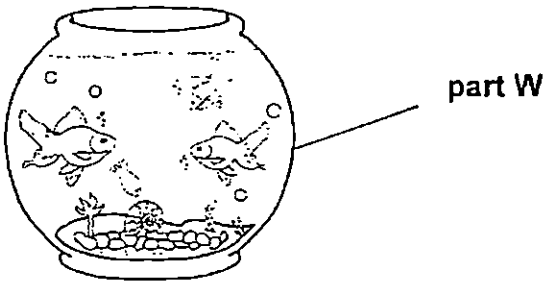
A Both the young and the adult plant have weak stems.
B The fruits of the adult plant are colourful, large and juicy.
C The adult plant has flowers but the young plant does not.
D Both the young and the adult plant can make its own food.

(1) A and B only
(2) C and D only
(3) A, C and D only
(4) B, C and D only

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21. The diagram below shows a fish tank containing some fish.



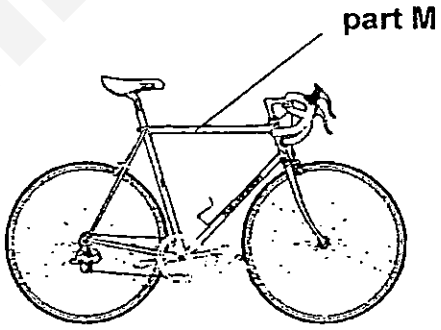
Which one of the following properties should be considered when making part W of a fish tank in order for us to see the fish in the tank clearly?

(1) It is flexible.
(2) It sinks in water.
(3) It is transparent.
(4) It is waterproof.

22. The diagram below shows two objects, A and B.



object A



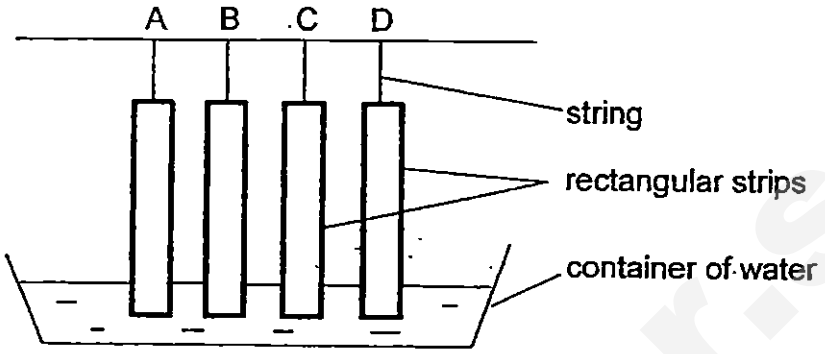
object B

Which one of the following best describes the property of parts L and M?

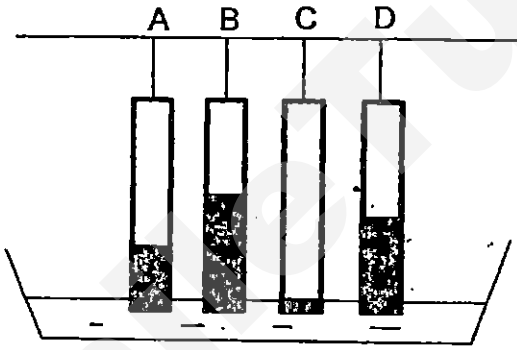
(1) Both parts L and M are flexible.
(2) Both parts L and M float on water.
(3) Part L is flexible but part M is not flexible.
(4) Part L is waterproof but part M is not waterproof.

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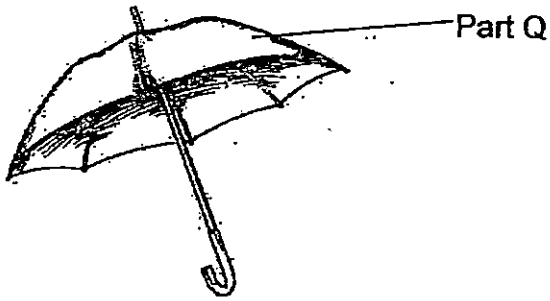
23. Amy had 4 rectangular strips, A, B, C and D, of equal size. The strips were made of different materials. She dipped all the strips in water as shown in the diagram below.



After 5 minutes, she noticed that water has risen to different levels along the 4 rectangular strips as shown in the diagram below.



Based only on the results shown above, which material is most suitable for making part Q of the object shown below.

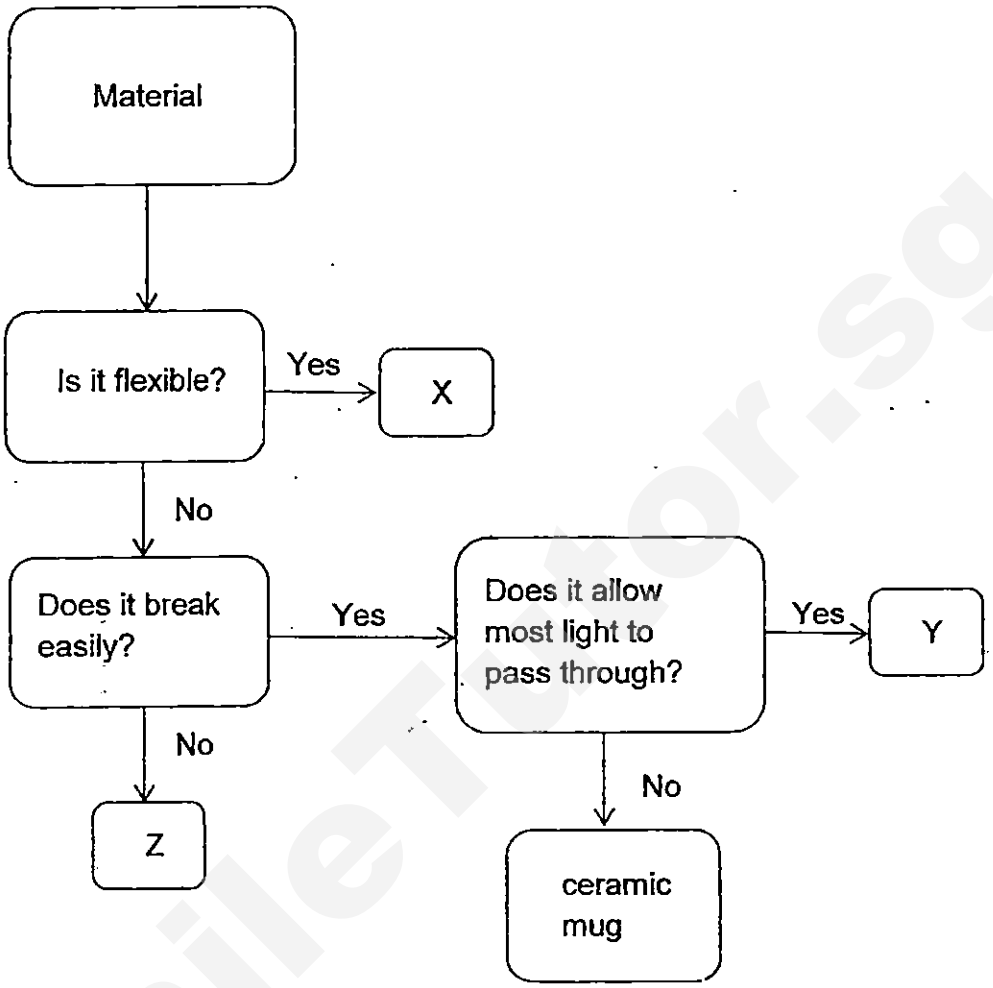


(1) A
(2) B
(3) C
(4) D

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24. Study the flowchart below.



Which of the letters, X, Y and Z, in the flowchart correctly represents a glass tank, a hand towel and a metal ruler?

	glass tank	hand towel	metal ruler
(1)	Y	X	Z
(2)	Y	Z	X
(3)	Z	X	Y
(4)	Z	Y	X

End of paper

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Name : _____ ( )

Class : Primary 3 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL

Primary 3
Semestral Assessment 2 – 2015
SCIENCE

BOOKLET B

29 Oct 2015

Booklet A	48
Booklet B	32
Total	80

Total Time for Booklets A and B: 1 hour 30 minutes

10 questions
32 marks

Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

This paper consists of 12 printed pages.

_____

Parent's Signature/Date

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Section B (32 marks)
For questions 25 to 34, write your answers in this booklet. The number of marks available is shown in the brackets [ ] at the end of each question or part question.

25. The diagram below shows two plants, A and B.



Plant A



Plant B

(a) Based only on what is observable in the diagram above, state a difference between plant A and plant B. [1]

_____

_____

(b) Fill in the blanks with the correct plant parts which perform the function stated in the table below. [3]

Plant parts	Function
(i) _____	Absorb water and nutrients for the plant from the soil.
(ii) _____	Make food for the plant
(iii) _____	Holds the plant upright and supports the branches and leaves

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26. The diagram below shows two organisms, E and F.



organism E



organism F

(a) Based only on what is observable, which organism, E or F, can be classified as a plant? Give a reason for your answer. [1]

_____

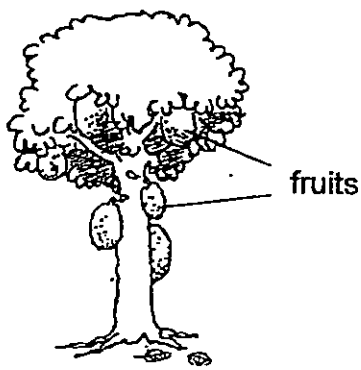
_____

(b) State one similarity between organisms E and F. [1]

_____

_____

Mary classified the plant shown below as a flowering plant.



(c) Do you agree with Mary? Explain why. [1]

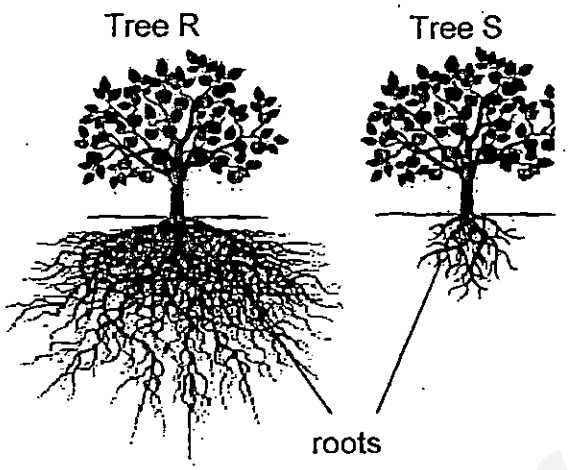
_____

_____

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27. Study trees, R and S, as shown below carefully.



(a) Which tree, R or S, would **not** be uprooted easily during a thunderstorm? [1]

_____

(b) Explain your answer in (a). [2]

_____

_____

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28. The diagram below shows a stage that a seed goes through during germination.



(a) Write number **1, 2 and 3** next to the parts of the seed stated below to show the order of its growth during seed germination. (1 being the first to grow and 3 being the last to grow) [1]

Shoots: _____

Leaves: _____

Roots: _____

(b) Is the seed able to make its own food at the stage shown in the diagram above? Give a reason for your answer. [1]

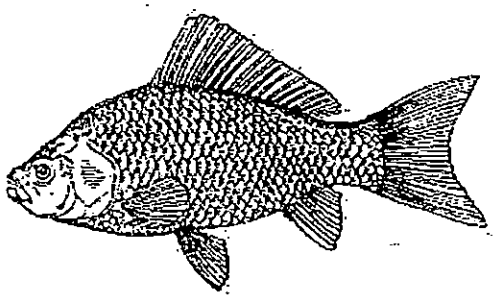
_____

_____

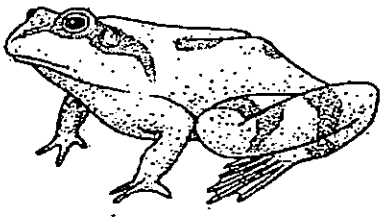
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29. The diagram below shows two organisms.



Animal X



Animal Y

(a) Based on your observation of the above diagram, state one difference between the two animals in terms of their body covering. [1]

_____

_____

(b) State the difference between the breathing methods for animal X and animal Y. [2]

_____

_____

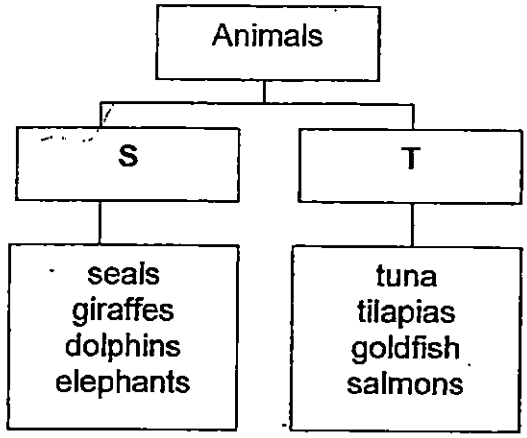
(c) Which animal group do animal X and animal Y belong to? [1]

Animal X: _____

Animal Y: _____

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30. Study the classification chart below.

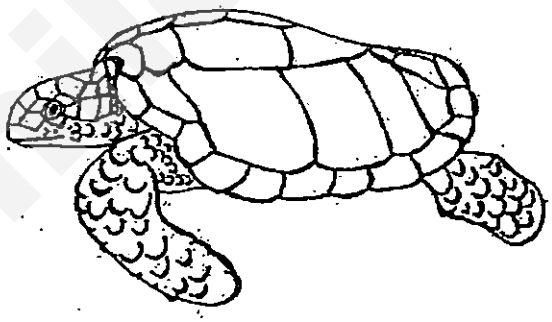


(a) Based on the classification chart above, suggest suitable headings based on the animal groupings for S and T. [1]

S : _____

T : _____

(b) The diagram below shows a turtle.



(i) State which group, S or T, you would place a turtle in. [1]

_____

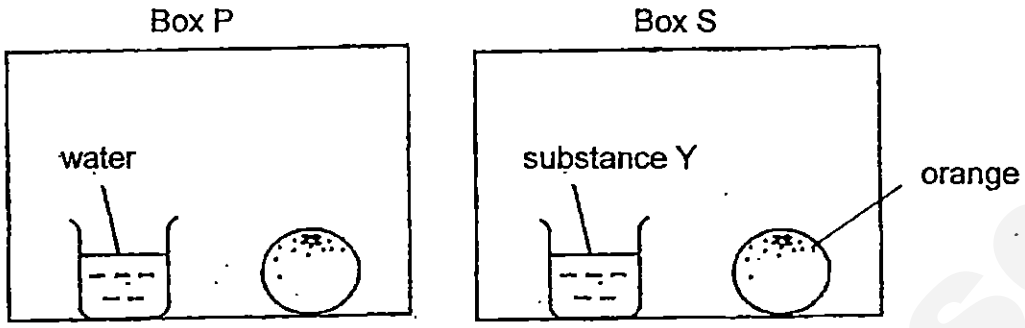
(ii) Give a reason for your answer based on the similar characteristic that a turtle would have with the animals you have grouped it with in (a) above. [1]

_____

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31. Amy placed two similar oranges in two identical boxes. She placed both boxes in a room. Substance Y in box S absorbs moisture from the surrounding.



(a) In which box, P or S, would moulds first appear on the orange? Give a reason for your answer. [2]

_____

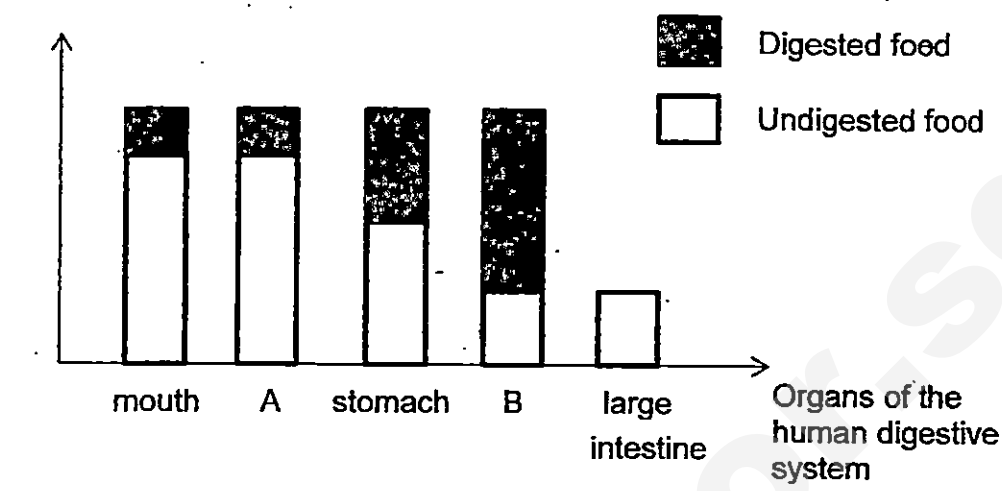
_____

(b) State one other condition that is required for moulds to grow. [1]

_____

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32. The bar graph below shows the amount of digested and undigested food in the different parts of the digestive system after a meal is eaten.



(a) Based on the graph above, state the organs A and B. [1]

A : _____

B : _____

(b) What happens to the food in B after it has been completely digested? [1]

_____

_____

(c) What is the function of organ A of the digestive system? [1]

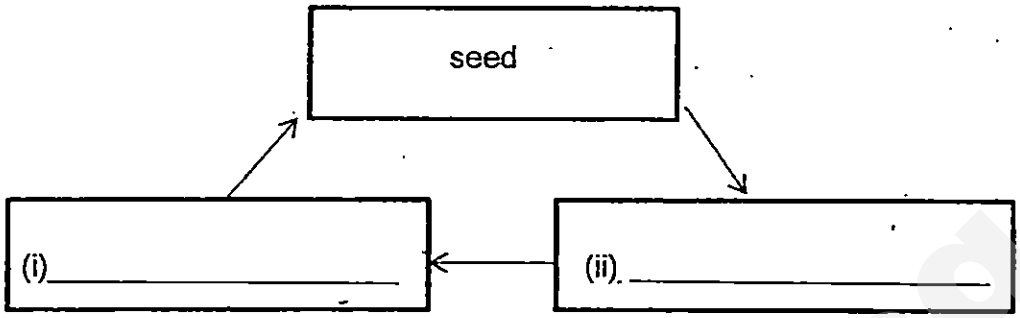
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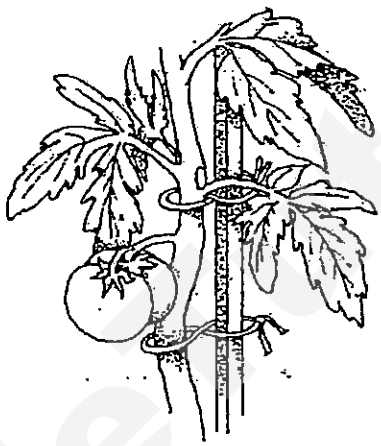
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33 (a) Complete the diagram below to show the life cycle of a tomato plant. [2]



(b) The diagram below shows a tomato plant.



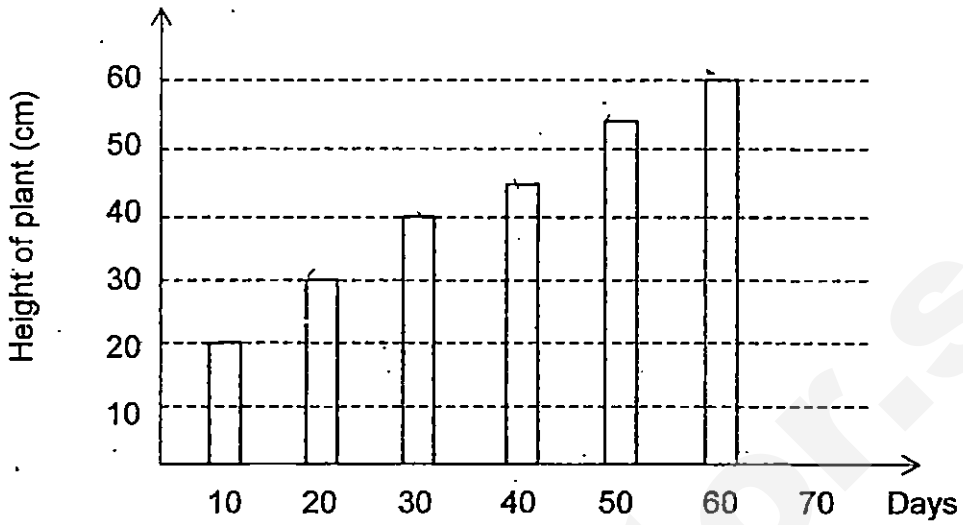
At which stage of the tomato plant's life cycle would the above be observed? Give one reason for your answer. [1]

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(c) Sue planted a tomato seed. She measured the height of the tomato plant for 60 days and represented her results in the form of a bar graph below.



Using only the information given in the graph, state one characteristic of living things the graph shows. [1]

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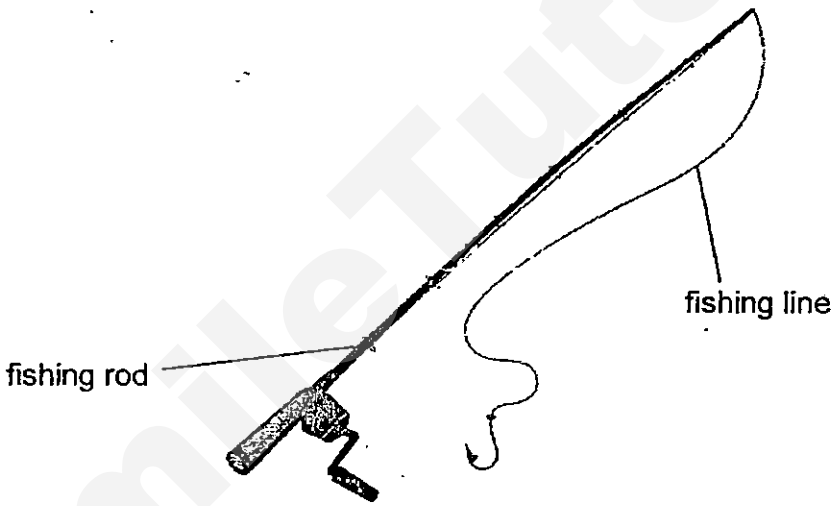
34. Jenny had three similar bags made of materials R, S and T. She added metal balls, one at a time, to each bag until the bag tore. She recorded the number of metal balls needed to make each bag tear in the table below.

Material	Number of metal balls
R	78
S	60
T	90

(a) Name the property of the materials that Jenny is testing. [1]

_____

(b) The diagram below shows a fishing rod with a fishing line attached.



Based on the results recorded in the table above, which material is most suitable for making the fishing line? Give a reason for your answer. [2]

_____

_____

End of paper

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LEVEL : PRIMARY 3
SCHOOL : CHIJ ST NICHOLAS PRIMARY SCHOOL
SUBJECT : SCIENCE
TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	3	4	4	3	2	4	2	1	1
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
4	2	4	2	4	3	2	2	1	2
Q21	Q22	Q23	Q24						
3	3	3	1						

Q25a. Plant A has a weak stem whereas Plant B has a strong stem.

Q25b. (i) Roots Q26 (ii) Leaves Q26(iii) Stem

Q26a. Organism E. It has leaves and roots whereas Organism F does not have these.

Q26b. Both reproduce by spores. Q26c. Fertilised flowers will develop into fruits.

Q27a. Tree R.

Q27b. The roots of tree R are deeper and more roots so it can anchor the tree firmly to the ground better than tree S.

Q28a. Shoots : 2 Leaves : 3 Roots: 1 Q28b. No. The true leaves have not opened up yet.

Q29a. Animal X has scales whereas Animal Y has moist skin.

Q29b. Animal Y breathe through lungs and skin.

Q29c. Animal X breathes through gills whereas Animal Y breathe through lungs and skin.

Q30a. S: Mammals T: Fish Q30b. (i) T (ii) A turtle has scales

Q31a. Box P. Mould need moisture to grow. There is no substance Y so moisture remains in Box P therefore mould can grow.

Q31b. Air Q32a. A: gullet B: small intestine

Q32b. It will absorb the digested food into the bloodstream and transported to all parts of the body through the circulatory system .

Q32c. The gullet transports the food from the mouth to the stomach.

Q33a. (i) adult plant (ii) young plant

Q33b. Adult plant . Once it is an adult plant, it will produce fruits.

Q33c. Living things grow. Q34a. The strength of the materials .

Q34b. Material T, as it is the strongest and could hold the most number of metal balls before it broke..

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HENRY PARK PRIMARY SCHOOL
2015 SEMESTRAL EXAMINATION 2
SCIENCE
PRIMARY 3

80

Duration of Paper: 1 h 30 min

Name: _____ ( ) Parent's Signature:

Class: Primary 3 _____ _____

Section A: Multiple-Choice Questions (20 X 2 = 40marks)

For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. The diagram shows Animal Y feeding on plants.



Animal Y

Which characteristic of living things can be observed from the diagram above?

(1) Living things grow.
(2) Living things need food.
(3) Living things reproduce.
(4) Living things move from place to place.

( )

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2 **A group of students came across Animal X. They made the following observations about this animal.**

- It was carrying its young.
- Its body was covered with soft brown hair.
- The young was feeding on its mother's milk.

Which animal group does Animal X belong to?

(1) Bird
(2) Reptile
(3) Mammal
(4) Amphibian

( )

3. Daisy wants to find out if an animal is an insect.
Which of the following actions will help her find this out?

A. Check if it lays eggs.
B. Check if it has wings.
C. Check if it has 6 legs.
D. Check if it has 3 body parts.

(1) A and B only
(2) C and D only
(3) A, B and D only
(4) B, C and D only

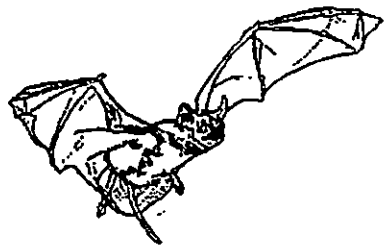
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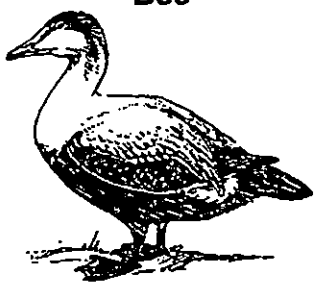
4 Ahmad wanted to classify the four animals shown below.



Bee



Bat

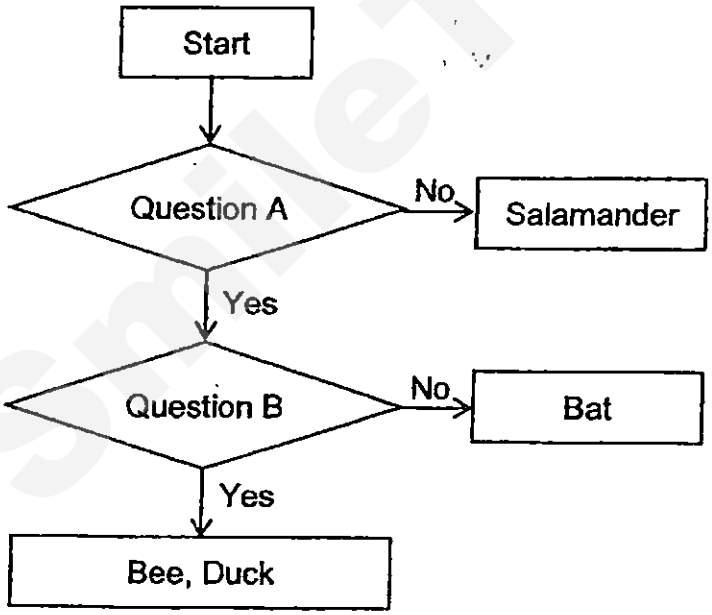


Duck



Salamander

He classified them with the help of the chart below.



What were the two questions, A and B?

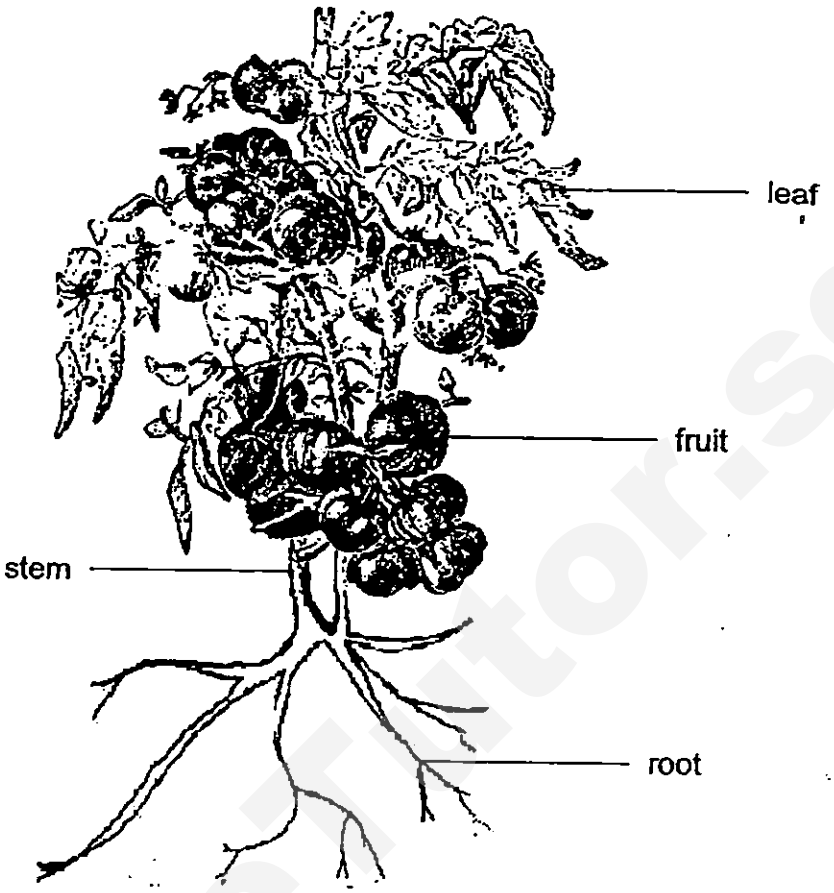
	Question A	Question B
(1)	Do they have wings?	Do they lay eggs?
(2)	Do they have wings?	Do they have a tail?
(3)	Do they lay eggs?	Do they have wings?
(4)	Do they lay eggs?	Do they have a tail?

( )

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5. The diagram below shows a plant.



Based on the diagram only, which part of the plant tells you that it is a flowering plant?

(1) The fruit
(2) The leaf
(3) The stem
(4) The roots

( )

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6. Sarah saw Plant A growing around the stem of Plant B as shown below.



Why does Plant A need to grow around Plant B?

(1) Plant A uses Plant B for support.
(2) Plant A obtains food from Plant B.
(3) Plant B provides shade for Plant A.
(4) Plant B absorbs the nutrients from Plant A.

( )

7. Lisa was walking in a park and she saw some fungi growing on a dead log as shown below.



Which of the following statements about the fungi is true?

(1) The fungi reproduce by seeds.
(2) The fungi make food for the log.
(3) The fungi depend on the dead log for food.
(4) The fungi are plants that grow on dead logs.

( )

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8. Ravi conducted several tests on materials A, B, C and D. He recorded his results in the table below.

A tick (✓) indicates the presence of the property and a cross (×) indicates the absence of the property.

Property	Materials			
	A	B	C	D
Waterproof	✓	✓	×	✓
Sinks in water	✓	✓	✓	×
Strong	✓	×	×	✓

The picture below shows a girl using a surfboard.



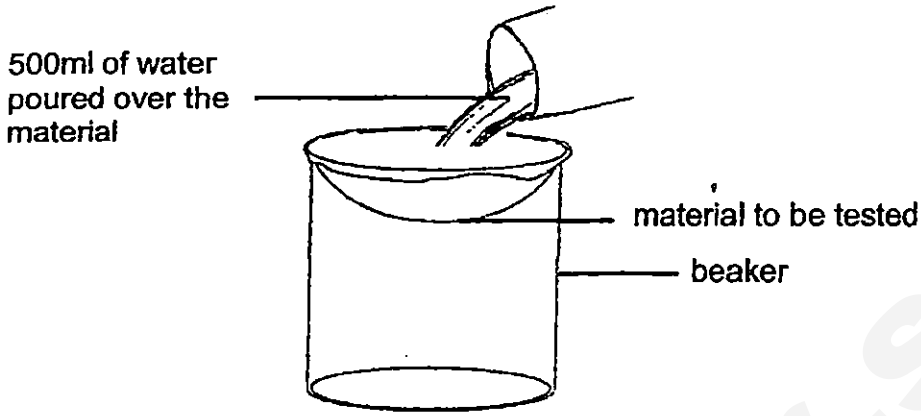
Which is the most suitable material to make a surfboard?

(1) Material A
(2) Material B
(3) Material C
(4) Material D

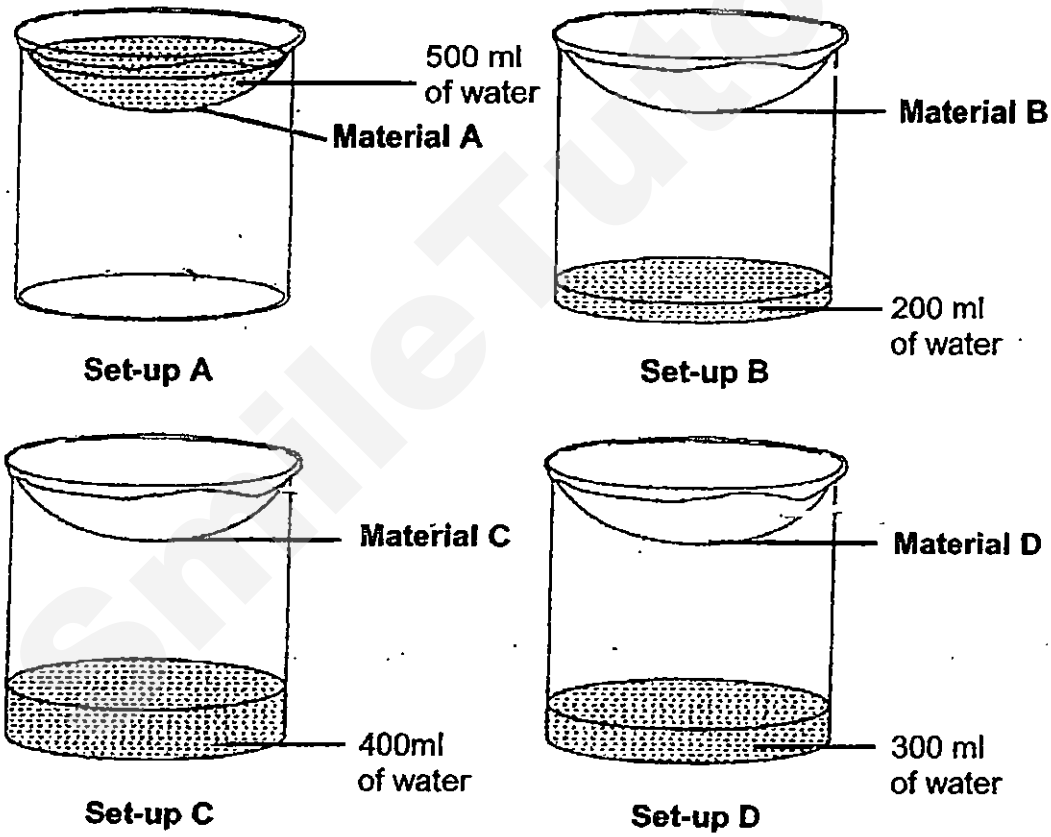
( )

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9 David carried out an experiment to find out which material, A, B, C or D, absorbs the most water. He set up his experiment as shown below.



The diagrams below show his results.



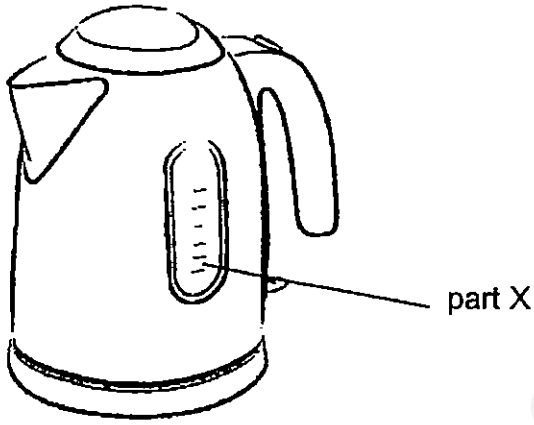
A bath towel is used to dry yourself after a shower.
Which is the most suitable material to make a bath towel?

(1) Material A
(2) Material B
(3) Material C
(4) Material D

( )

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10. The picture below shows an electric kettle.



Which of the following properties of part X enable us to see the water level?

(1) It is strong.
(2) It is waterproof.
(3) It floats on water.
(4) It allows light to pass through.

( )

11. The table below describes the stages of the life cycles of four animals, K, L, M and N.

A tick (✓) indicates that the description is true and a cross (×) indicates that the description is false.

Description	Animal K	Animal L	Animal M	Animal N
The young looks like the adult.	✓	×	✓	✓
It has three stages in its life cycle.	✓	×	×	✓
The young goes through a process called moulting.	×	✓	×	✓

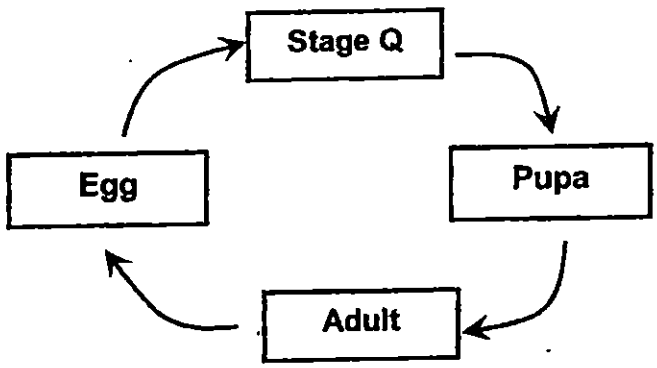
Which of the following animal is likely to be a beetle?

(1) Animal K
(2) Animal L
(3) Animal M
(4) Animal N

( )

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12. The diagram below shows the different stages of a life cycle of an animal.



Which one of the following represents the animal at **Stage Q** and the **Adult** stage correctly?

	Stage Q	Adult
(1)	Chick	Chicken
(2)	Nymph	Grasshopper
(3)	Tadpole	Frog
(4)	Caterpillar	Butterfly

( )

13. Faith conducted an experiment to find out whether the presence of sunlight would affect the growth of seeds.

She placed a few seeds in each of the four containers.

Container	Amount of water (ml)	Sunlight	Number of seeds used
W	5	✓	4
X	10	✓	5
Y	5	×	4
Z	15	✓	4

(✓ - sunlight is present, × – sunlight is absent)

From the table above, which containers should she use for a fair experiment?

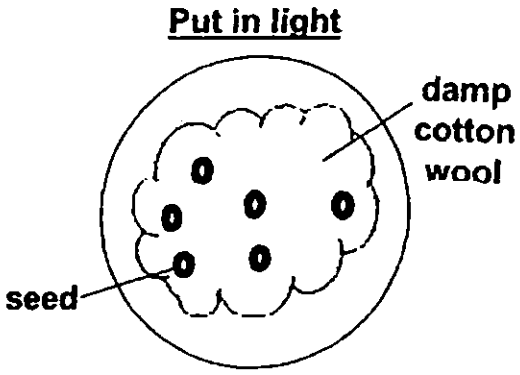
(1) Containers X and Z
(2) Containers Y and Z
(3) Containers W and X
(4) Containers W and Y

( )

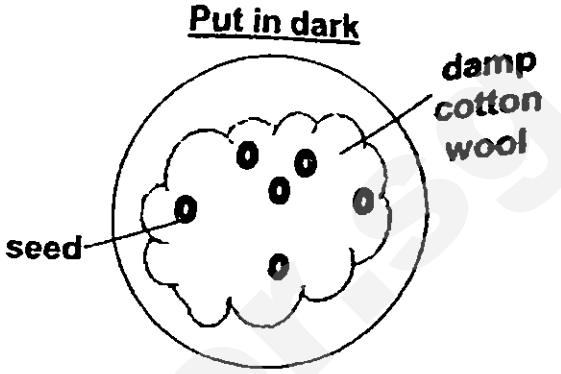
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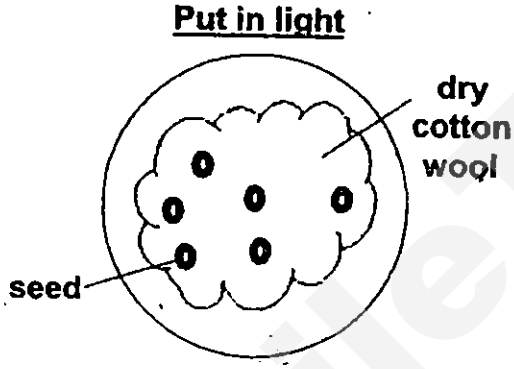
14. Kate grew some seeds in four different containers in her classroom, as show below.



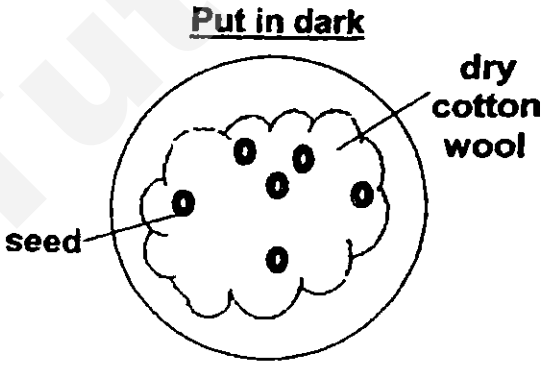
Set-up A



Set-up B



Set-up C



Set-up D

After two days, she found that the seeds germinated in some containers but not in the others.

In which containers did the seeds likely germinate?

(1) A and B
(2) B and C
(3) A and D
(4) C and D

( )

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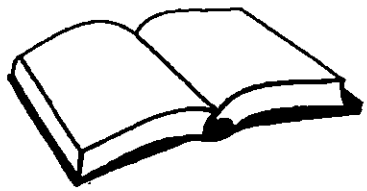
15. Which of the following does **not** use a magnet?

(1)



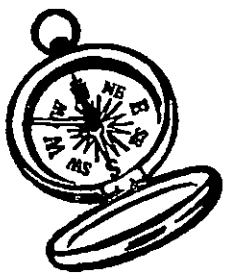
Telephone

(2)



Book

(3)



Compass

(4)



Refrigerator

( )

16. A student tests several types of magnets.

Which of the following observation could best help her compare the strengths of different magnets?

(1) The shape of the magnets
(2) The weight of the magnets
(3) The type of materials attracted by the magnets
(4) Distance at which an object is attracted to the magnets

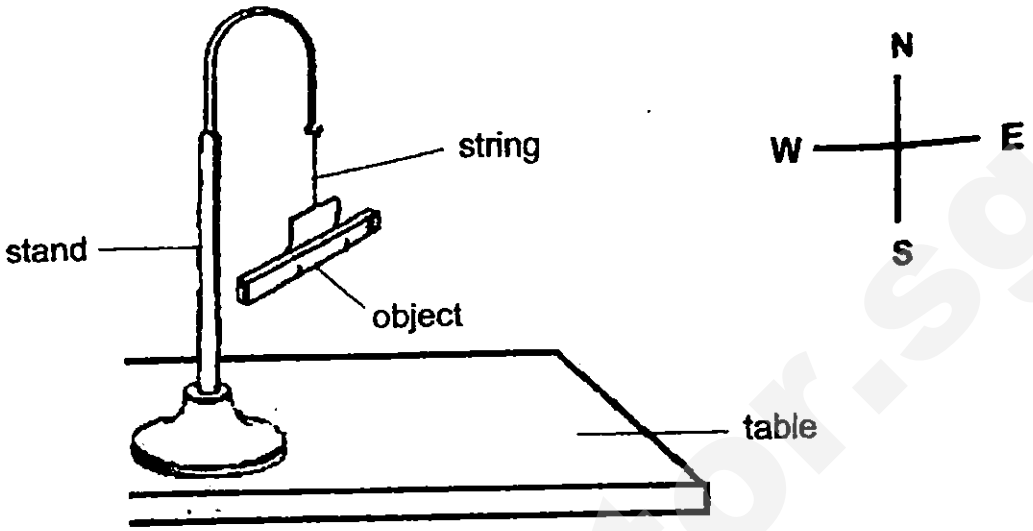
( )

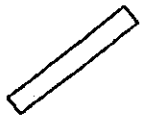
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17. Fazal hung 4 objects, P, Q, R and S, on a stand as shown below.

Each object came to rest at different positions. He recorded his findings in the table below.



Object	Resting position
P	
Q	
R	
S	

Based on the table, which of the following is likely to be a magnet?

(1) Object P
(2) Object Q
(3) Object R
(4) Object S

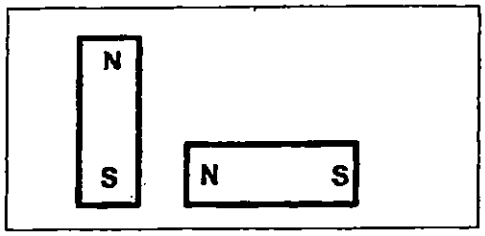
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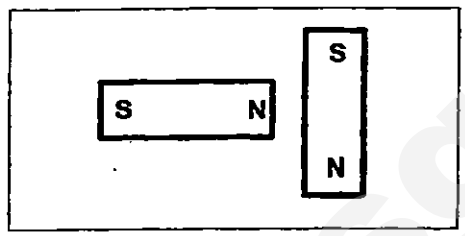
18. Tom arranged some similar magnets as shown below.

In which set-up, will the magnets repel each other **most strongly**?

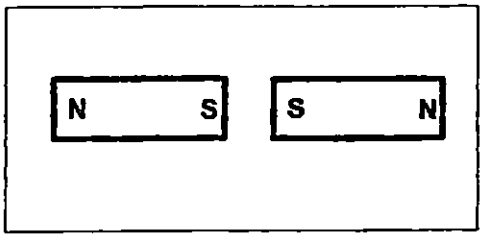
(1)



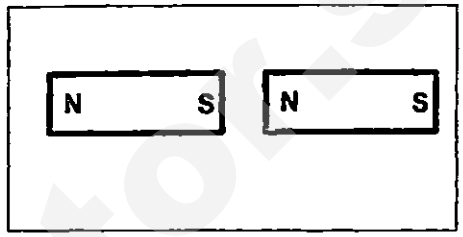
(2)



(3)

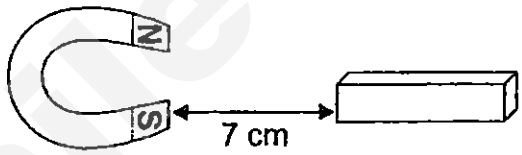


(4)



( )

19. Four objects are placed at the same distance from Magnet Q, as in the set-up shown below.



Magnet Q Object to be tested

Which one of the following objects will be attracted to Magnet Q?

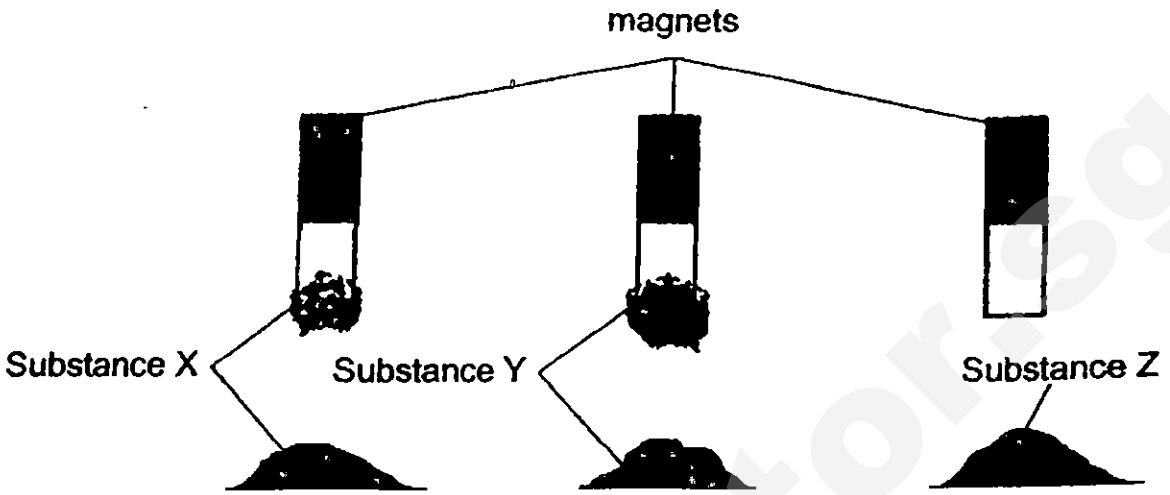
(1) Eraser
(2) Iron nail
(3) Wooden clip
(4) Aluminium can

( )

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20. The picture below shows similar magnets after they have been dipped into substances X, Y and Z respectively.



Which substance(s) could be sand?

(1) X only
(2) Z only
(3) Y and Z only
(4) X and Y only

( )

End of Section A

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16

Section B: Structured Questions (8 x 2 = 16 marks)

Write your answers to questions 21 to 28 in the spaces given.

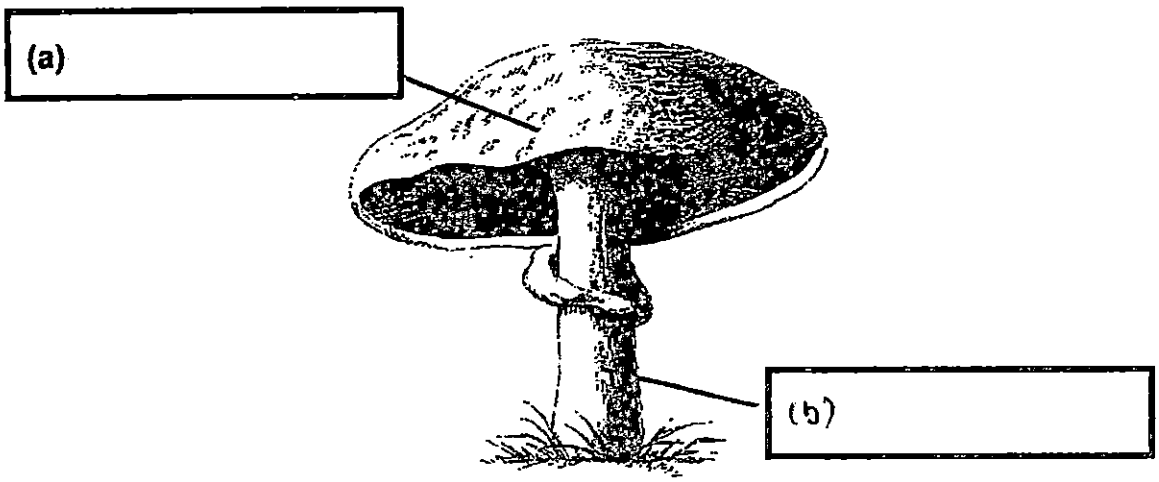
21. Complete the following table with the helping words given below. [2m]

Helping Words	
Fungi	Mosses
Ferns	Animals

Organisms that can make their own food	Organisms that cannot make their own food

22. Study the organism shown below. [2m]
Using the helping words given below, label parts (a) and (b) correctly.

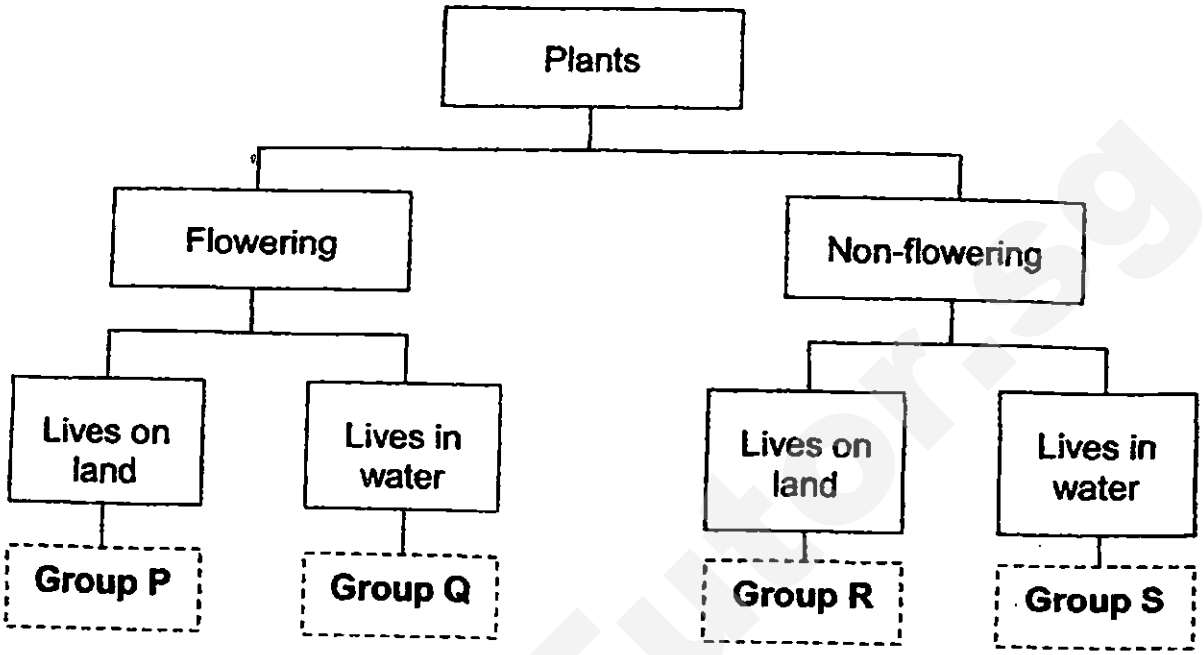
Helping Words	
cap	gills
cover	stalk



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23. The following classification chart shows how plants can be grouped.



Kelly observed 4 plants, A, B, C and D, and recorded their characteristics in the table below.

A tick (✓) shows that the plant has the characteristic and a cross (×) shows that the plant does not have the characteristic.

Characteristic	Plant A	Plant B	Plant C	Plant D
Bears fruit	✓	✓	×	×
Grows in water	✓	×	✓	×

Which group, P, Q, R or S, does Plant A, B, C and D belong to? [2m]

(a) Plant A: Group _____

(b) Plant B: Group _____

(c) Plant C: Group _____

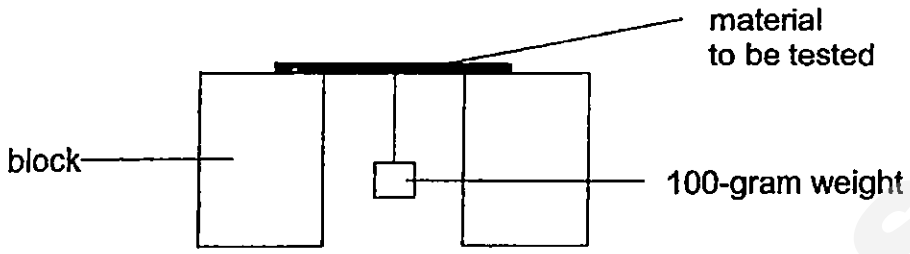
(d) Plant D: Group _____

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24. Caili set up an experiment as shown below.

She added 100-gram weights to Material S and Material T until they broke. Then, she counted the total number of 100-gram weights that caused each material to break.



The results of her experiment are shown in the table below.

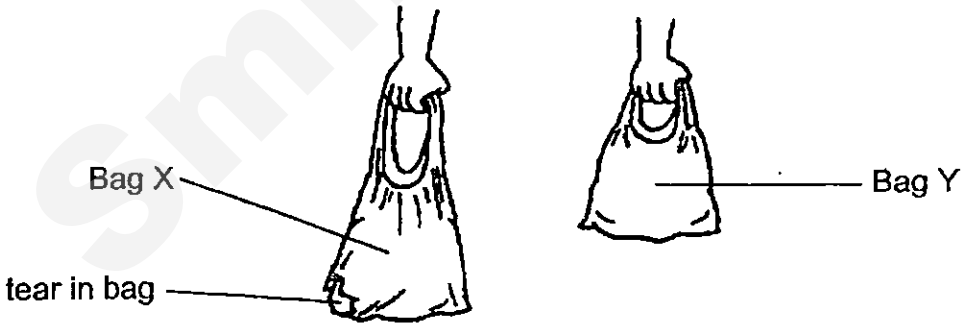
Material	**S**	**T**
Number of 100-gram weights	1	4

(a) Which property of the material did Caili investigate? [1m]

_____

Materials S and T were used to make two different bags, X and Y.

The pictures below show what happens when the same object was placed in each of the bags.

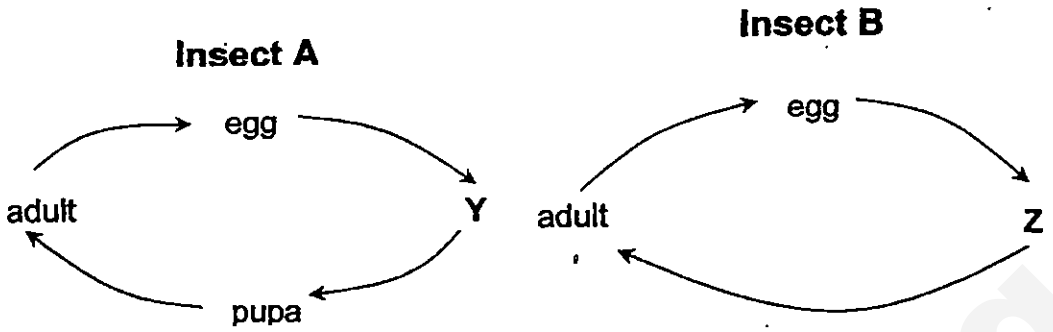


(b) Which material, S or T, was used to make Bag X? [1m]

_____

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25. The diagrams below show the life cycles of two insects, **A** and **B**.



Name stages **Y** and **Z** in the life cycles shown above. [2m]

Y: _____ **Z:** _____

26. Ahmad wants to carry out an experiment to find out if green beans or kidney beans germinate faster.

In the table below, tick (✓) correctly the variables he should keep the same and the variable that must be changed in order to carry out a fair experiment. [2m]

Variable	Keep the same	Change
Number of seeds in each pot		
Type of soil in each pot		
Type of seed in each pot		
Place where each pot is kept		

27. Fill in the blanks with the correct helping words given below. [2m]

attract	weakest	steel	oppose	repel	wood	strongest

Like poles of magnets _____ each other while unlike poles of magnets _____ each other.

Objects made of _____ are attracted to a magnet.

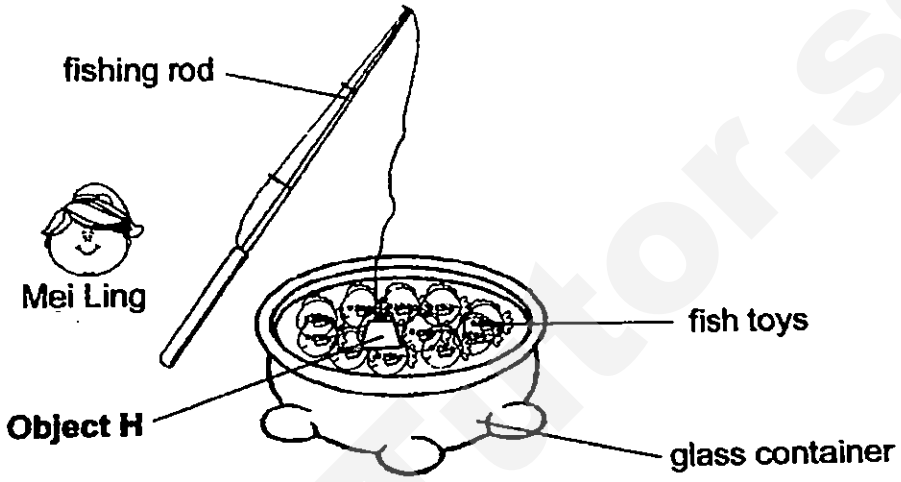
A magnet is _____ at its poles.

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28. Mei Ling wanted to play with her fishing toy set.

She used a fishing rod that had **Object H** hanging from the end of the line to "catch" as many fish toys as she could.

During the game, Mei Ling realised that some fish toys "swam" away from **Object H** when it was brought closer.



(a) What is **Object H** likely to be? [1m]
Tick (✓) the correct box.

☐ Magnet ☐ Non-Magnetic Material ☐ Magnetic Material

(b) What are the fish toys likely to be? [1m]
Tick (✓) the correct box.

☐ Wood ☐ Magnet ☐ Steel

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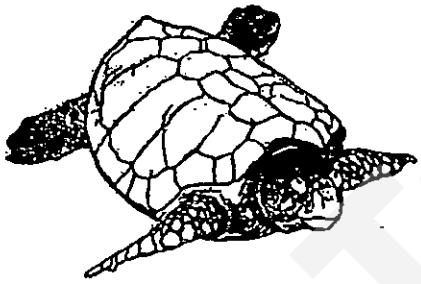
Name: _____

Class: Primary 3 _____

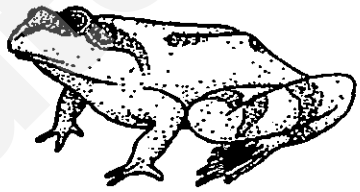
Section C: Open-Ended Questions (24 marks)

For each question from 29 to 36, write your answers in the spaces given.

29. The pictures below show organisms A and B.



Organism A



Organism B

These two organisms **reproduce** in **similar** ways.

(a) State this **similarity.** [1m]

_____

_____

These two organisms have **different outer coverings.**

(b) State this **difference.** [1m]

_____

_____

(c) Which animal group does Organism A belong to? [1m]

_____

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30. Sally saw the following plants in her garden and classified them into two groups X and Y, as shown below.

Group X	Group Y
	

She then found Plant K as shown below.



Plant K

(a) In which group, X or Y, should she place **Plant K**? **[1m]**

_____

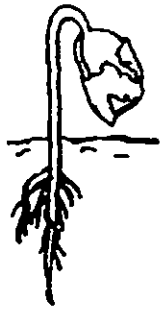
(b) Explain clearly your answer in (a). **[2m]**

_____

_____

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31. The picture below shows a seedling.



Seedling

(a) What will appear from the seedling after the stage shown above? [1m]

_____

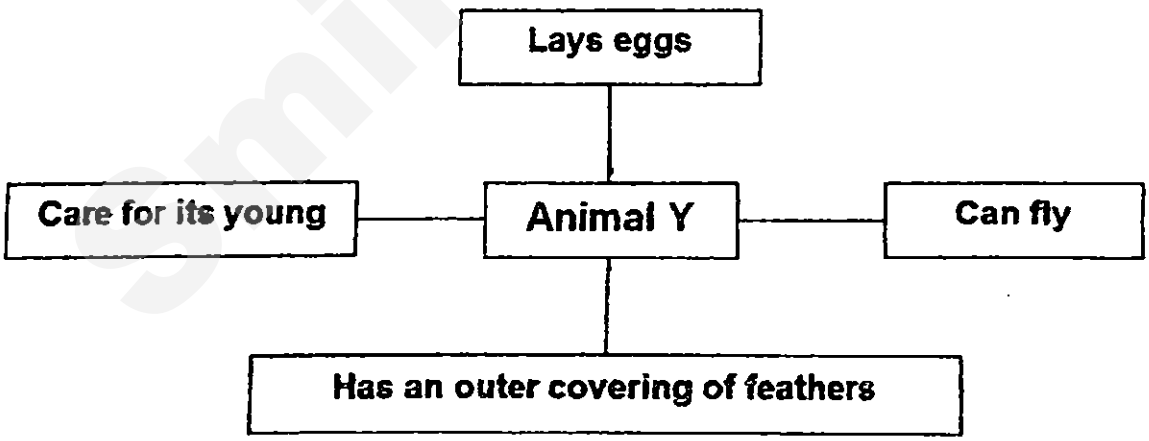
(b) **Name** the part that grows out of a seed first. [1m]

_____

(c) Give a reason for your answer in (b). [1m]

_____

32. The diagram below describes Animal Y.



(a) Using the information above, which group of animals does Animal Y belong to? [1m]

_____

(b) Explain your answer in (a), using the correct information from the diagram. [1m]

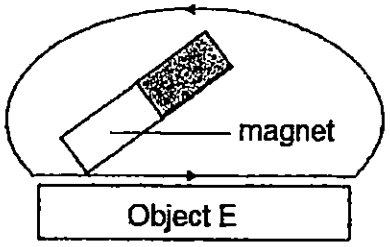
_____

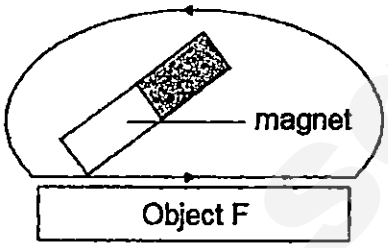
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33. Betty wanted to make two temporary magnets. She used a strong magnet to magnetise objects E and F.

She stroked objects E and F 40 times each in the same direction, as shown below.





Betty, then, brought the temporary magnets near some steel paperclips.

The results are shown below.

	Number of steel paperclips attracted to the objects		
Objects	**1st try**	**2nd try**	**3rd try**
E	0	0	0
F	5	4	5

(a) Which object, E or F, is **not** made of a magnetic material? [1m]

_____

(b) Using information from the table, explain your answer in (a). [1m]

_____

_____

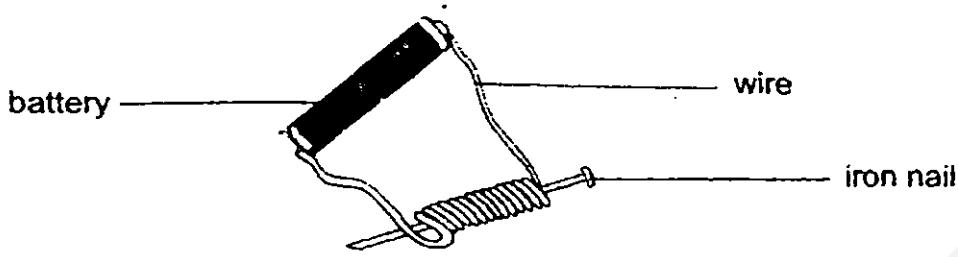
(c) Suggest 2 ways how Object F can be made into a **stronger** temporary magnet. [2m]

i) _____

ii) _____

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34. Meena used an electromagnet, as shown below, to conduct an experiment.



She wanted to find out **how the number of coils of wire around the iron nail** affects the **strength of the electromagnet**.

(a) What must Meena **count** to find out how strong **the electromagnet** is?

Put a tick (✓) in the correct box in Table A below for your answer. [1m]

Table A

Variables	Tick (✓) the correct variable
Length of nail	
Material of pins	
Number of pins attracted	
Number of coils of wire	

Meena recorded the results of her experiment in Table B below.

Table B

Number of coils of wire	**10**	**20**	**30**	**40**	**50**
Number of pins attracted	**4**	**7**	**?**	**19**	**26**

(b) Based on Meena's findings, how many pins could the iron nail attract **when there were 30 coils of wire around it**? [1m]

_____

(c) Other than increasing the number of coils of wire around the iron nail, what else could Meena have done to increase the strength of the electromagnet? [1m]

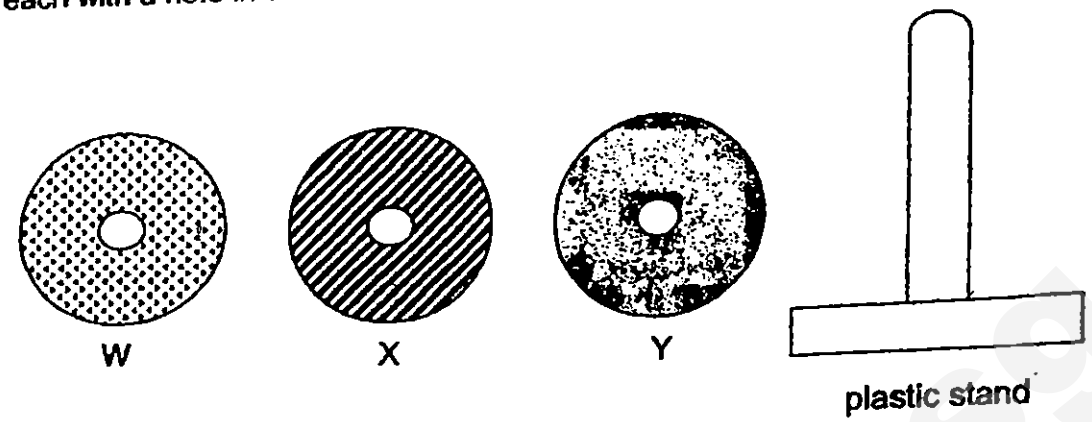
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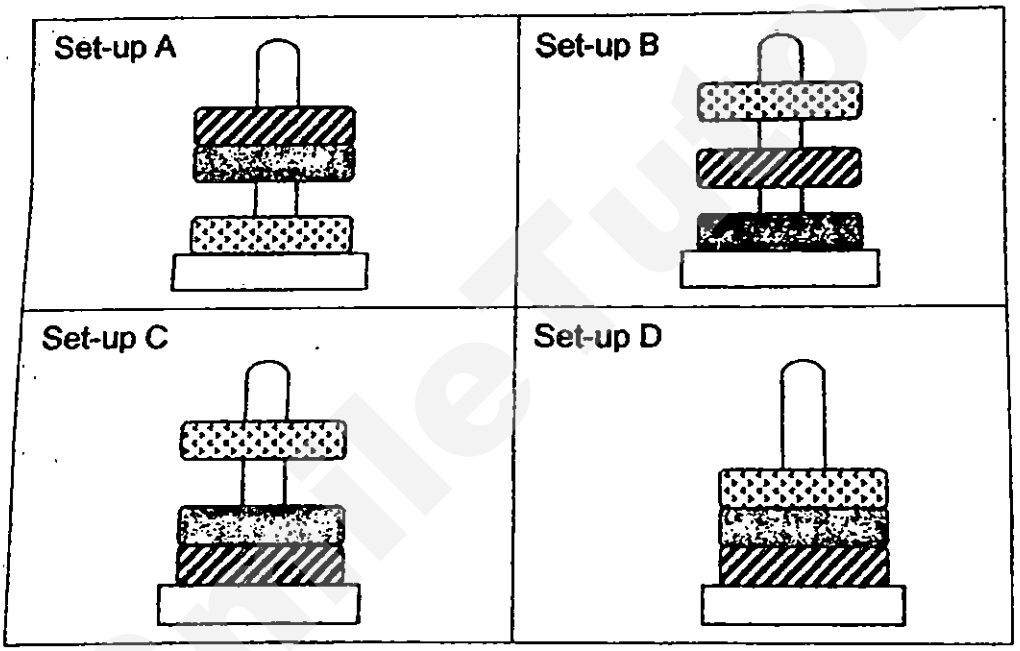
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35. The diagram below shows a plastic stand and three discs, W, X, Y, of similar size, each with a hole in the centre. Only two of the discs are magnets.



The diagrams below show the positions of the three discs when they are placed on top of one another through the plastic stand.



(a) Based on the information provided, which one of the above set-ups would **not** be possible? [1m]

_____

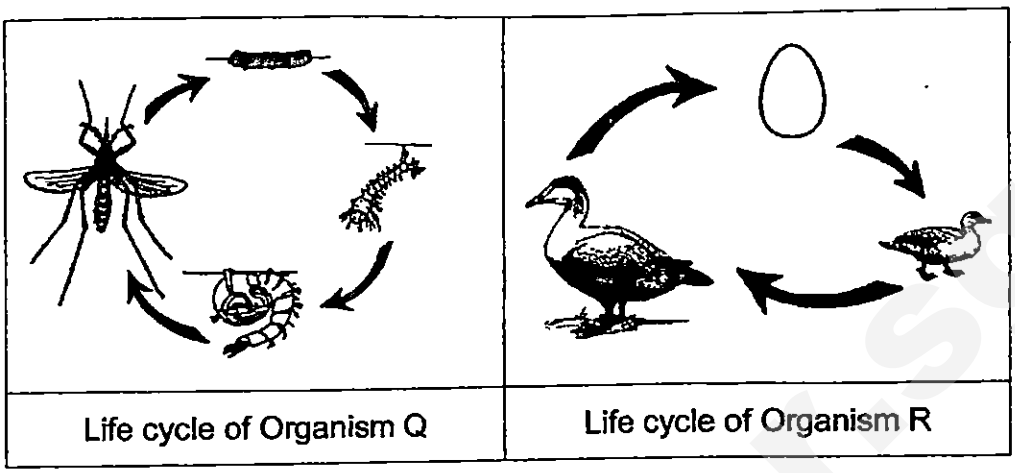
(b) Give a reason for your answer. [2m]

_____

_____

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36 The diagrams below show the lifecycle of organisms Q and R.



Life cycle of Organism Q	Life cycle of Organism R

State the **differences** between the life cycles of organisms Q and R for each of the following: [3m]

(a) Number of stages	
(b) Where the eggs are laid	
(c) Appearance of the young and the adult	

End of Paper

Setters: Mdm Fathlon Tawfik and Mr Sadhiq

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EXAM PAPER 2015
LEVEL : PRIMARY 4
SCHOOL : HENRY PARK PRIMARY SCHOOL
SUBJECT : SCIENCE
TERM : SA2

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
2	3	2	1	1	1	3	4	2	4
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
2	4	4	1	2	4	3	3	2	2

Q21 Ferns / Mosses Fungi / Animals Q22a. cap Q22b. stalk

Q23a. Group Q
Q23b. Group P
Q23c. Group S
Q23d Group R

Q24a. The property is strength Q24b. Material S.

Q25. Y: Larva Z: Nymph

Q26. Number of seeds in each pot : Keep the same
Q26. Type of soil in each pot : Keep the same
Q26. Type of seed in each pot : Change
Q26. Place where each pot is kept : Keep the same

Q27. Repel / attract / steel / strongest

Q28a. Magnet Q28b. Magnet Q29a. They lay eggs

Q29b. Organism A has the outer covering of scales but organism B has an outer covering of moist skin.

Q29c. It belongs to the animal group of reptile.

Q30a. Group X. Q30b. All the plants in group X grow on land like plant K, but the plant in group X require soil.

Q31a. Leaves will appear from the seedling after that stage.

Q31b. The roots Q31c No model answer

Q32a. The group of birds. Q32b. Birds can fly, care for its young and have feathers.

Q33a. Object E Q33b. It did not attract any paper clips, even on the third try.

Q33c (i) By using a more powerful magnet to stroke it.

Q33c. (ii) By stroking it even more times. Q34a. Number of pins attracted

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Q34b. It could attract fifteen paperclips.

Q34c. She could increase the number of dry cells that are connected to the coils of wire.

Q35a. Set up B. Q35b. Only the like poles of magnets repel, and only two of them are magnets, so there only can be one repulsion.

Q36a. No model answer.
Q36b. Organism Q lays its eggs in water, but organism R doe does not.
Q36c. The young of organism R look like the adult but the young of organism Q does not.

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Founded in 1887

END-OF-YEAR EXAMINATION 2015
PRIMARY 3
SCIENCE

BOOKLET A

Total Time for Booklets A and B: 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES
Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.

Name: _____ ( )

Class: Primary 3.____

Date : 30 October 2015

This booklet consists of 20 printed pages including this page.

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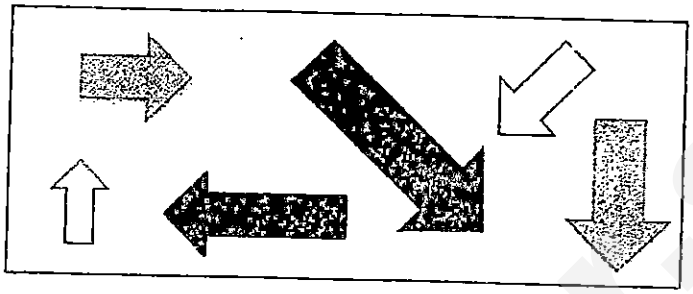
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For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet (OAS).

[60 marks]

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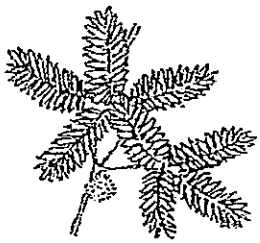
1. Look at the diagram below.



The arrows are of/have different __(a)__ but have the same __(b)__ .

	(a)	(b)
(1)	sizes	colour
(2)	shapes	size
(3)	number of sides	size
(4)	colours	number of sides

2. Jody saw a mimosa plant and touched the mimosa leaves with her fingers. To her surprise, the leaves did not close at all. What could be the reason?



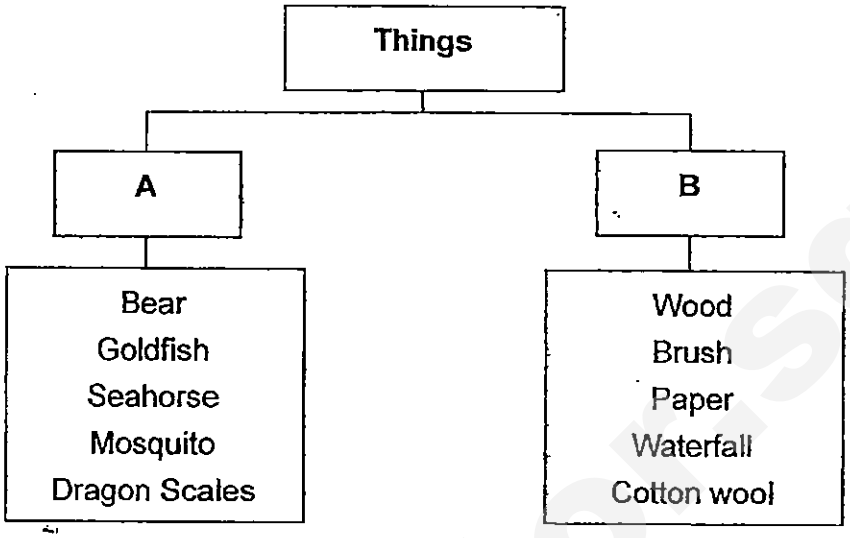
The mimosa plant was _____.

(1) germinating
(2) making food
(3) made of plastic
(4) slow in responding to changes

(Go on to the next page)

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3. The classification table below shows how some things are classified.



Which of the following represents the sub-headings, A and B, correctly?

	A	B
(1)	Animals	Plants
(2)	Plants	Animals
(3)	Living things	Non-living things
(4)	Non-living things	Living things

4. Study the following description of animal Z.

It has hair.
It eats plants.
It hops on its hind legs.
It burrows underground.

Animal Z is most likely to be a _____.

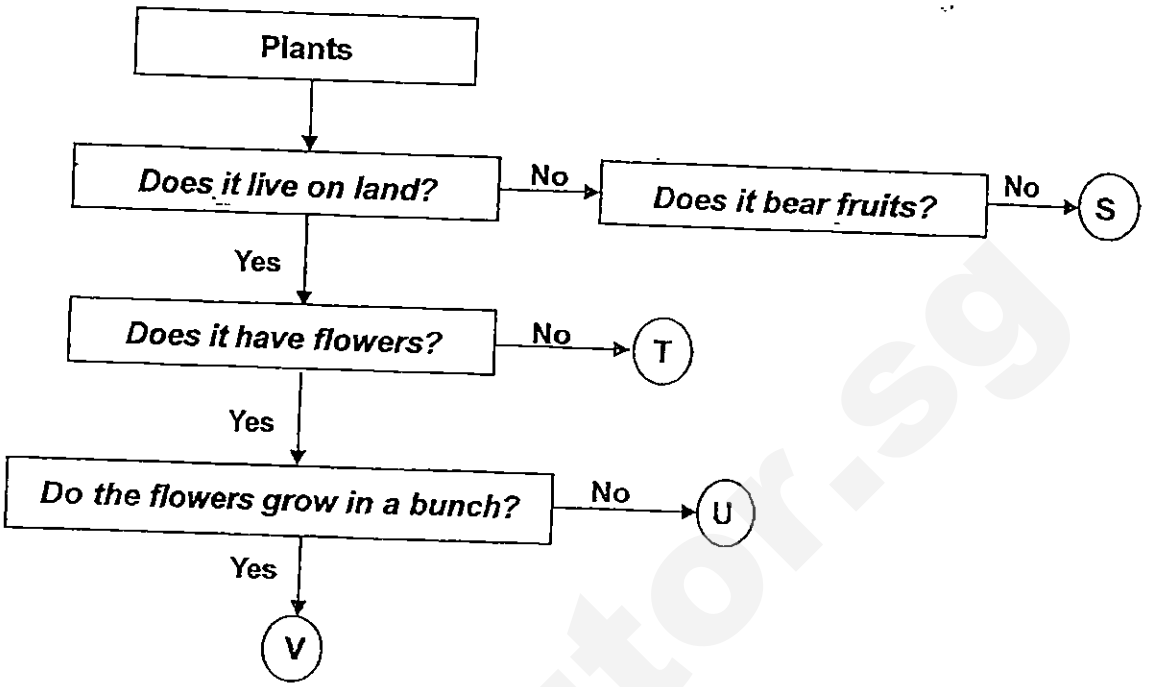
(1) bat
(2) toad
(3) rabbit
(4) penguin

(Go on to the next page)

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5. The flow chart below shows how some living things, S, T, U and V, have been classified.



Which one of the following best represents the Ixora?

(1) S
(2) T
(3) U
(4) V

6. Which of the following statements about bacteria is/are **false**?

A: Bacteria can reproduce.
B: All bacteria are harmful.
C: Bacteria need food to survive.
D: Bacteria can be found everywhere.

(1) A only
(2) B only
(3) A and C only
(4) B and D only

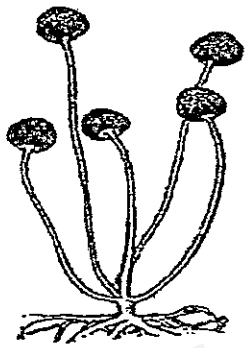
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7. The diagram below shows two organisms.



Mushroom



Mould

In what ways are the mushroom and the mould similar?

A: They can reproduce.
B: They can cause decay.
C: They cannot make their own food.
D: They can only be seen through a microscope.

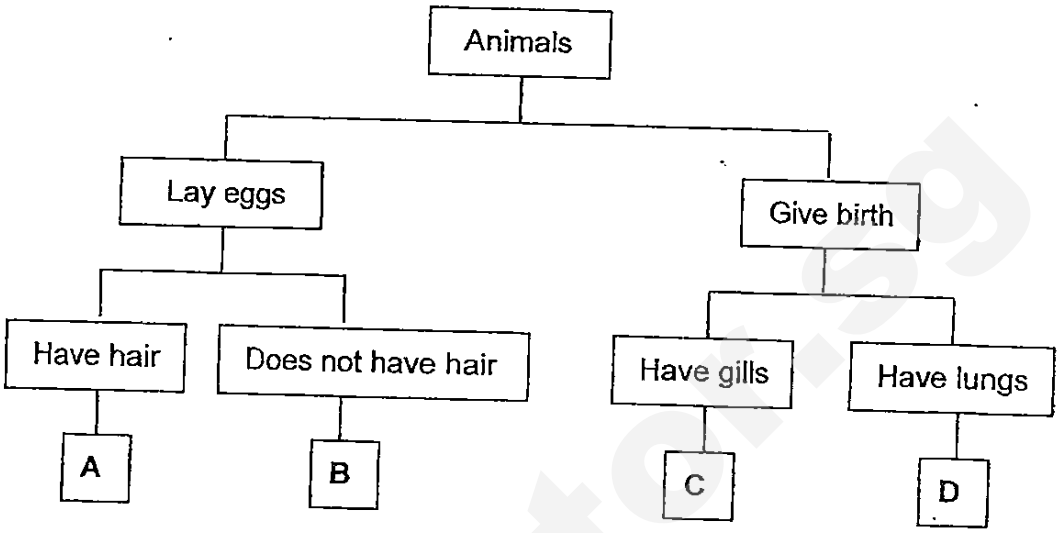
(1) A, B and C only
(2) A, C and D only
(3) B, C and D only
(4) A, B, C and D

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8. Study the classification chart below carefully.



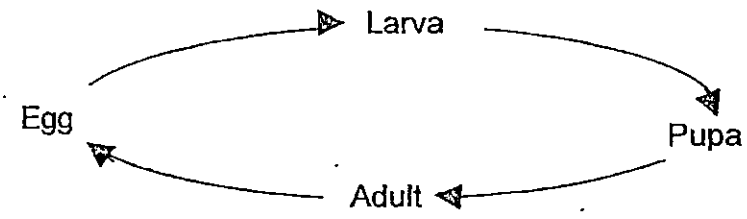
What animals can A, B, C and D be?

	A	B	C	D
(1)	Horse	Swordtail	Turtle	Platypus
(2)	Swordtail	Turtle	Horse	Platypus
(3)	Platypus	Swordtail	Horse	Turtle
(4)	Platypus	Turtle	Swordtail	Horse

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9. Study the diagram below carefully.

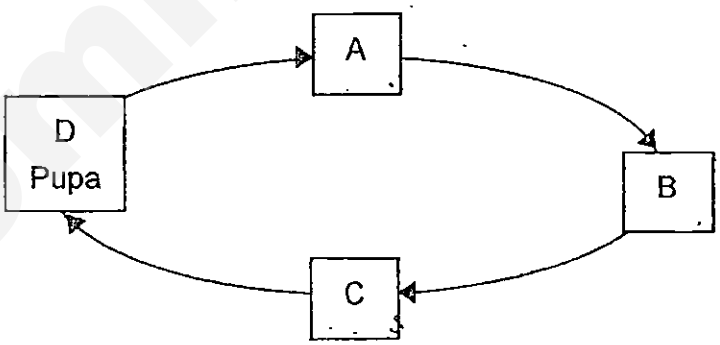


Which of the following animals go through the life cycle as shown above?

A: Mosquito
B: Cockroach
C: Grasshopper
D: Mealworm beetle

(1) A only
(2) B and C only
(3) A and D only
(4) B and D only

10. The diagram below shows the life cycle of a butterfly.



At which stage, A, B, C or D, does the butterfly cause harm to the plants?

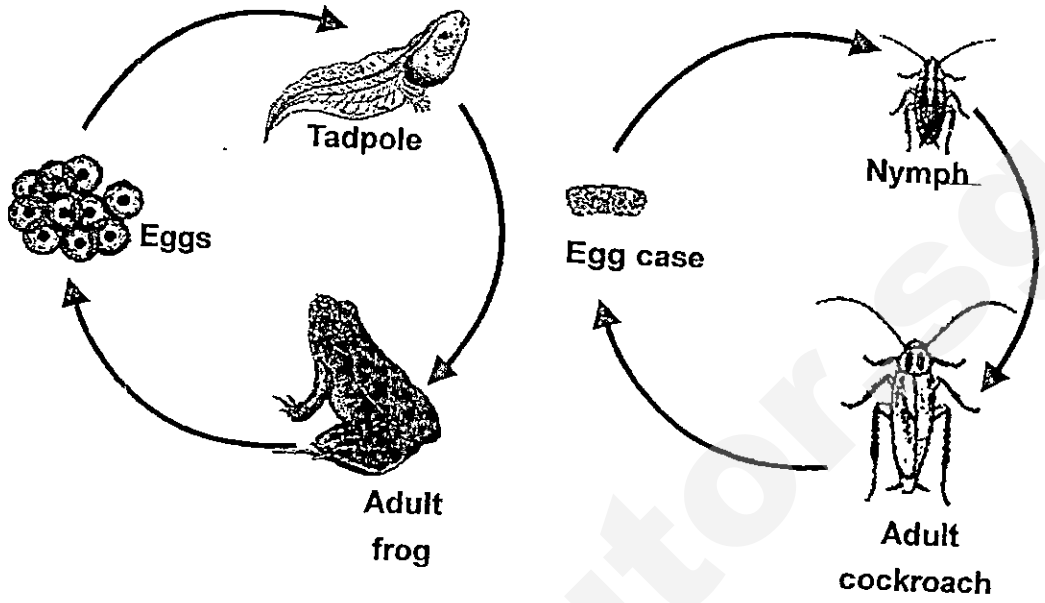
(1) A
(2) B
(3) C
(4) D

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11. Study the diagram below carefully.



Which of the following similarities between the life cycles of the two animals shown above are correct?

A: The young hatch from eggs.
B: The young look like the adult.
C: There are three stages in their life cycles.
D: The female adult lays many eggs at one time.

(1) A and B only
(2) C and D only
(3) A, B and C only
(4) A, C and D only

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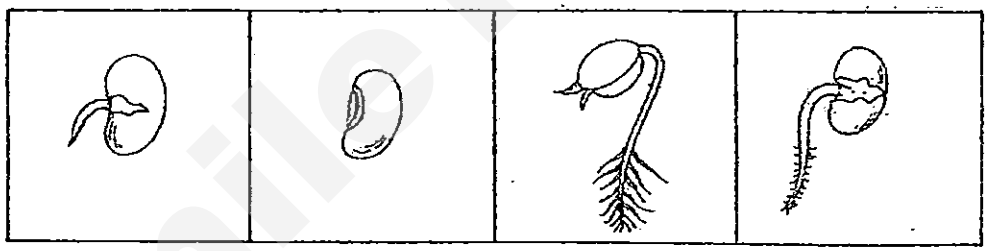
12. Nadia did a study on two animals, P and Q, and drew up a checklist.

What Nadia observed	Animal P	Animal Q
Eggs are laid in water	No	Yes
There are 3 stages in the life cycle	Yes	No
It has 3 pairs of legs	Yes	Yes

What are animals P and Q?

	Animal P	Animal Q
(1)	Moth	Ladybird
(2)	Chicken	Butterfly
	Grasshopper	Mosquito
(4)	Mealworm beetle	Dragonfly

13. The diagram below shows the different stages of the growth of a seed.



Which one of the following options shows the correct order of growth?

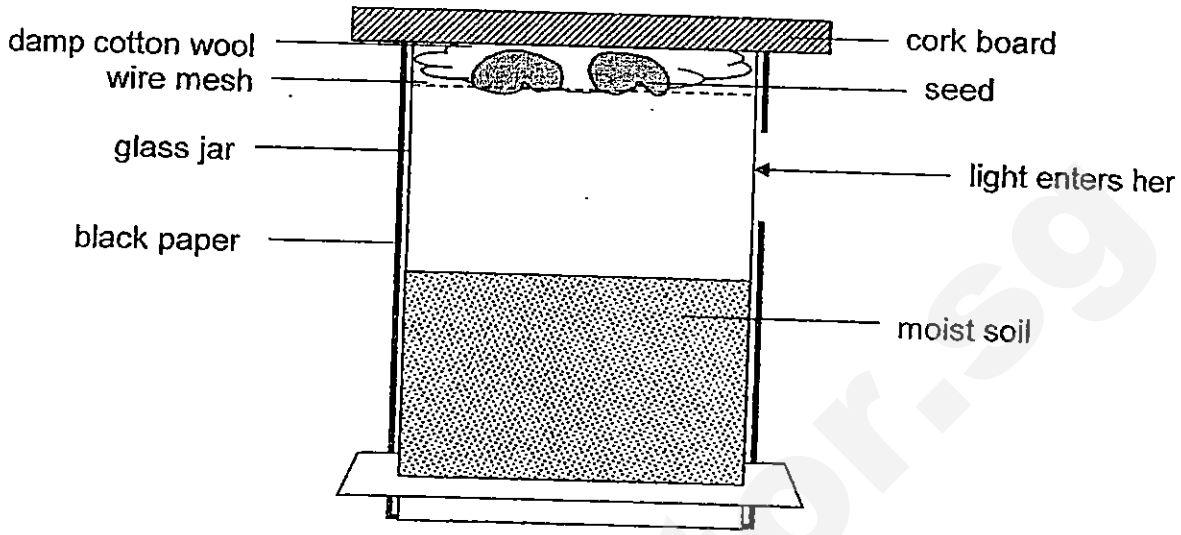
(1) B, A, C, D
(2) B, A, D, C
(3) B, D, C, A
(4) B, D, A, C

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Study the set up below carefully and answer questions 14 and 15.



14. What will happen to the roots when the seed begins to germinate?
They will grow _____.

(1) in all directions
(2) towards the light
(3) towards the moist soil
(4) towards the cork board

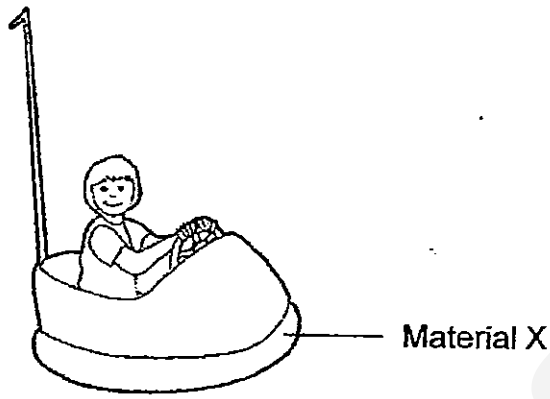
15. It was observed that the young plant grew towards the light. Why did this happen?

(1) The young plant needed light to make food.
(2) Light allowed the young plant to grow faster.
(3) The young plant needed nutrients for growth.
(4) Light would provide heat for the young plant to grow healthily.

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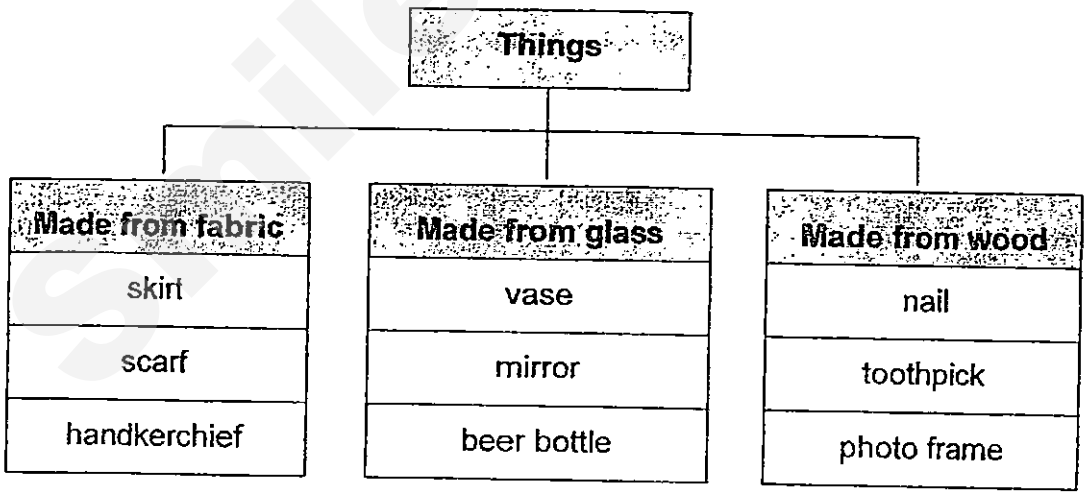
16. The picture below shows a bumper car.



Which of the following options correctly describe the property and reason for using Material X?

	Property	Reason
(1)	Stiff	Material does not allow light to pass through
(2)	Strong	Car will not be damaged easily
(3)	Flexible	Material will not break easily
(4)	Waterproof	Car will be able to move faster

17. Some things have been classified into three groups as shown below.



Which one of the following things has been grouped **wrongly**?

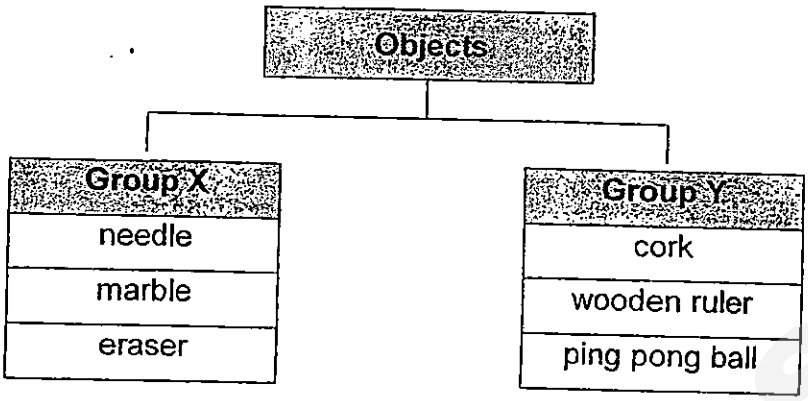
(1) nail
(2) mirror
(3) toothpick
(4) handkerchief

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18. Some objects have been classified into two groups as shown below.



What can the headings for Groups X and Y be?

	Group X	Group Y
(1)	Flexible	Stiff
(2)	Waterproof	Absorbent
(3)	Sink in water	Float in water
(4)	Allows most light to pass through	Does not allow light to pass through

19. Omar wants to pack his footwear for a holiday at the beach. Based on the information below, which is the most suitable footwear for the beach?

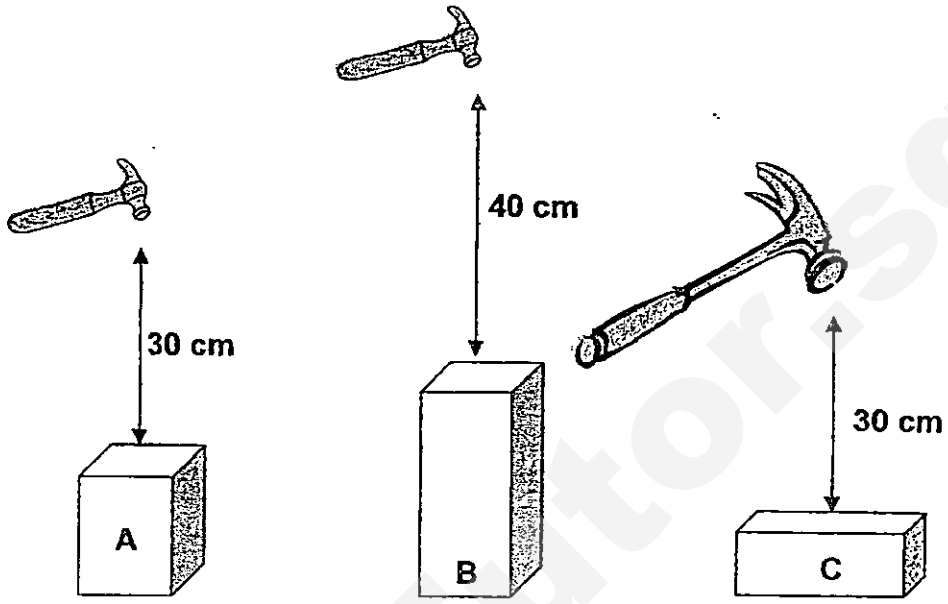
Footwear	Flexible	Waterproof	Breaks easily
W	No	Yes	No
X	Yes	No	Yes
Y	No	No	Yes
Z	Yes	Yes	No

(1) W
(2) X
(3) Y
(4) Z

(Go on to the next page)

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20. Rafael wanted to test the strength of objects A, B and C made of different materials by hitting them with a hammer. He concluded that object B is the strongest because it did not break. His teacher told him that his conclusion was incorrect because he did not conduct a fair experiment.



What should Rafael do to ensure that the experiment was fair?

A: All three objects should be of the same size:
B: Object A, B and C should be of the same material.
C: The same hammer must be used for all the objects.
D: The distance between the hammer and the objects must be equal:

(1) A only
(2) B and C only
(3) A, B and C only
(4) A, C and D only

21. Which of the following object(s) will be attracted to magnets?

A: Gold ring
B: Copper plate
C: Steel thumbtack
D: Aluminium frame

(1) C only
(2) B and C only
(3) A, B and C only
(4) A, B, C and D

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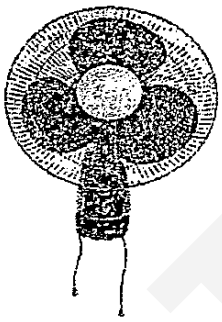
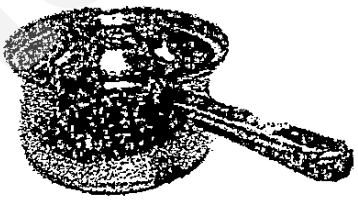
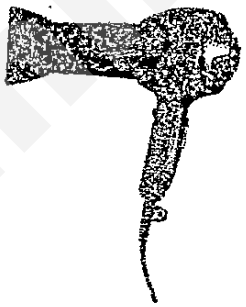
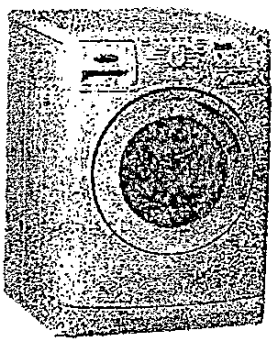
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22. Rohei uses a hammer to hit a bar magnet many times.

What will happen to the bar magnet?

(1) Nothing will happen.
(2) The hammer will be magnetised.
(3) The bar magnet will become stronger.
(4) The bar magnet will lose its magnetism.

23. Which one of the following items is classified **wrongly**?

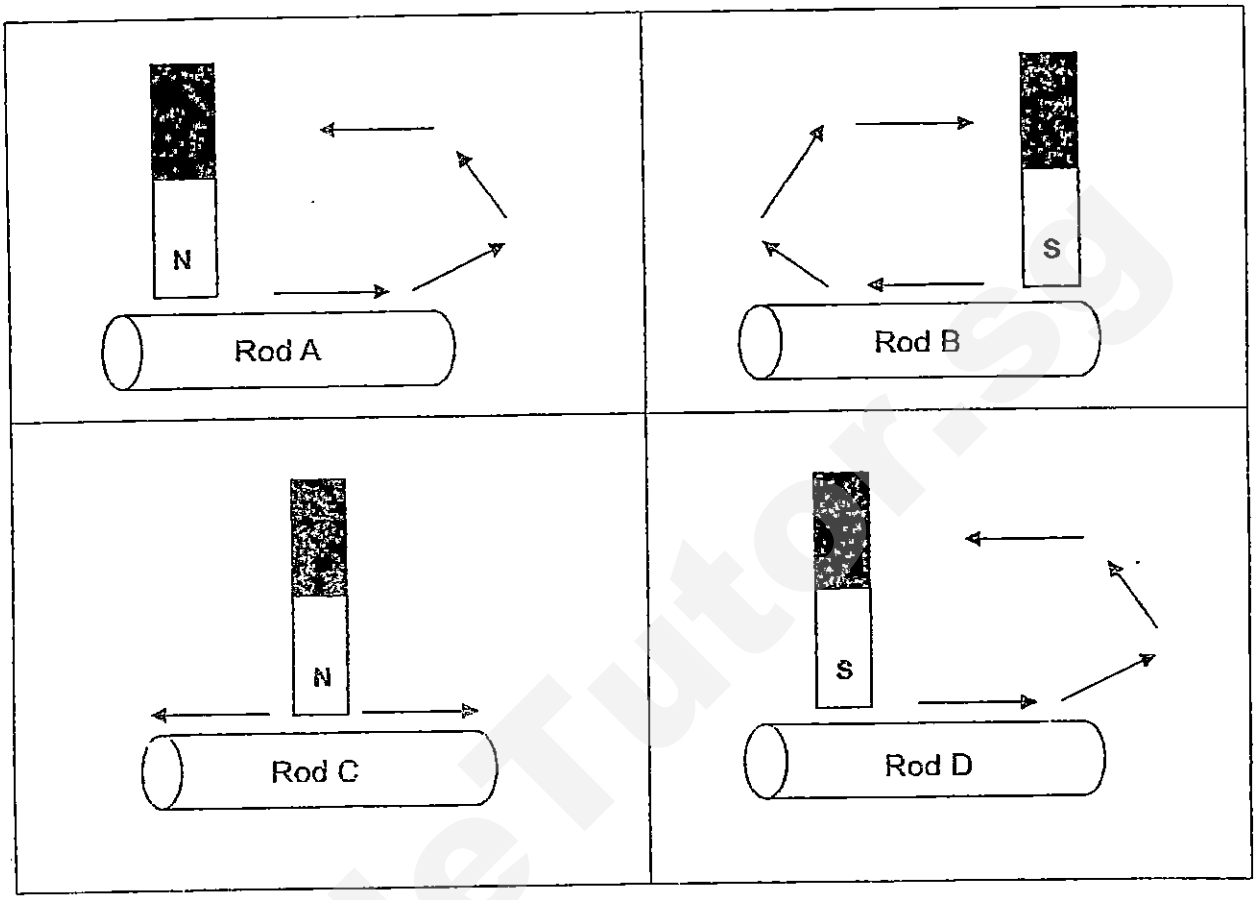
Makes use of magnets	Does not make use of magnets
 Electric fan	 Cooking pot
 Hair dryer	 Washing machine

(1) Hair dryer
(2) Electric fan
(3) Cooking pot
(4) Washing machine

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24. Steve tried to magnetise four iron rods, A, B, C and D, using the stroking method as shown below.



Which rod(s) will become temporary magnet(s)?

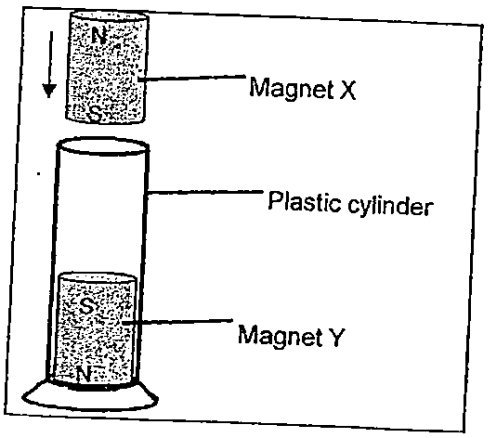
(1) B only
(2) A and D only
(3) A, B and D only
(4) A, B, C and D

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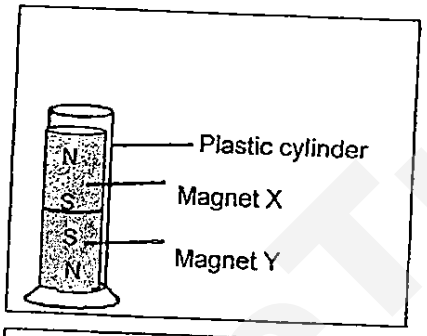
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25. Study the diagram below.

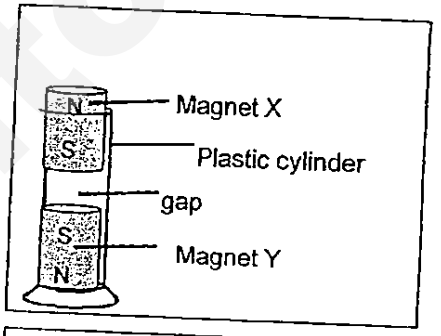


What will happen when magnet X is slowly lowered into the plastic cylinder?

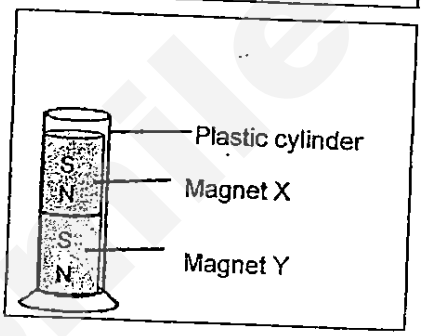
(1)



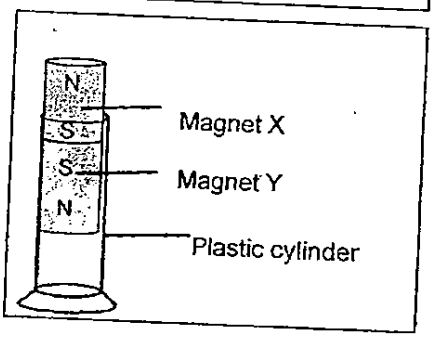
(2)



(3)



(4)



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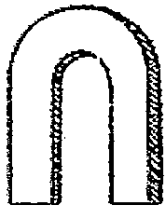
26. Anthony had three magnets, A, B and C, as shown in the diagram below.



Magnet A



Magnet B



Magnet C

He placed each magnet at the same distance from the same amount of paper clips. He then slowly moved the magnet nearer to the paperclips and measured the distance at which the magnet attracted the paper clips and the number of paper clips attracted.

The table below shows his results.

Magnet	Distance between magnet and paperclips (cm)	Number of paperclips attracted
A	7	12
B	2	5
C	4	12

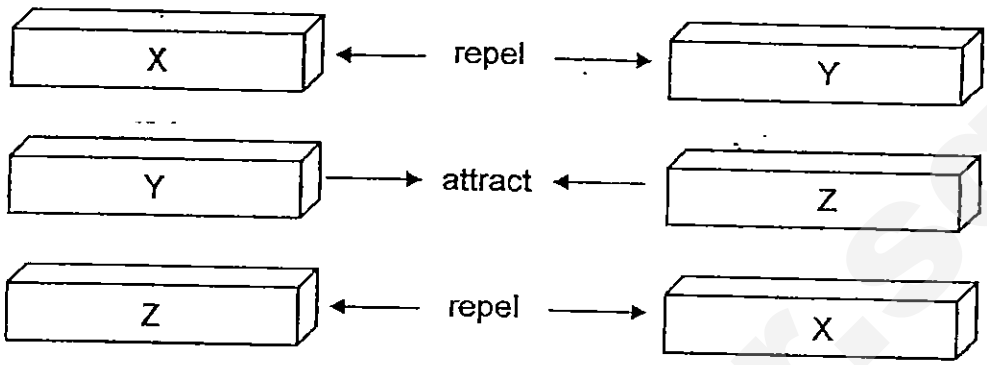
Which of the following statements is correct?

(1) Magnet C is the weakest magnet.
(2) Magnet A is the strongest magnet.
(3) Magnet A is as strong as Magnet C.
(4) Magnet B is a stronger magnet than A.

(Go on to the next page)

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27. The following diagram shows how three bars X, Y and Z interact with one another.



Based on your observation, which of the following can you conclude?

A: X is a magnet
B: Y is a magnet
C: Z is a magnet

(1) A and B only
(2) A and C only
(3) B and C only
(4) A, B and C only

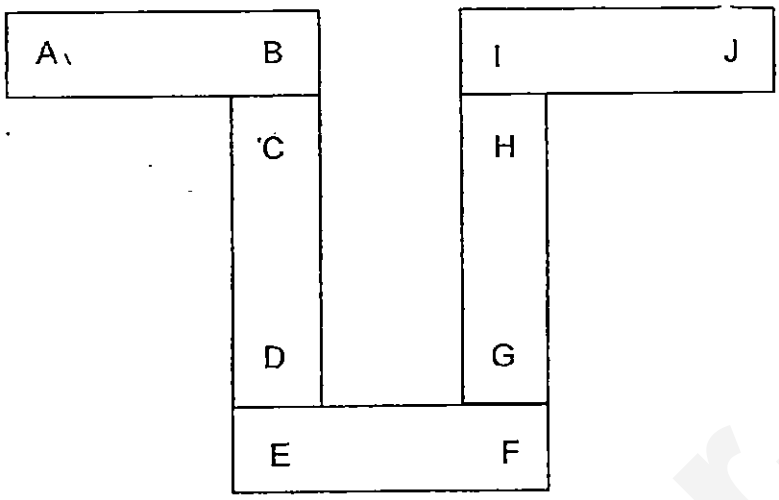
28. Which property of a magnet enables a compass to work?

(1) A magnet is strongest at its poles.
(2) A magnet attracts magnetic materials.
(3) A magnetic material can be made into a magnet.
(4) A freely turning magnet comes to rest in a North-South direction.

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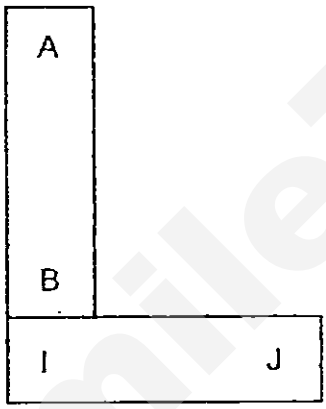
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29. Five bar magnets with their ends marked A to J can be arranged as shown below.

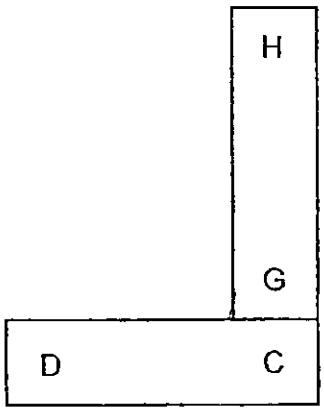


Which one of the following diagrams shows a possible arrangement of two of the magnets?

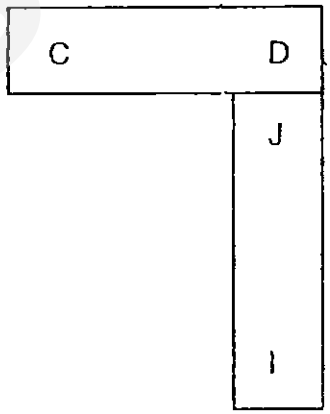
(1)



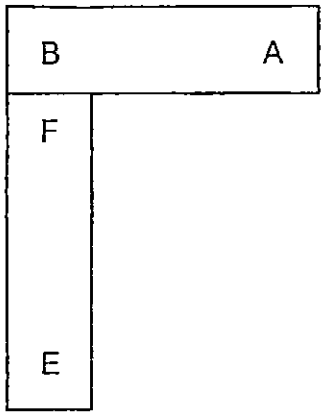
(2)



(3)



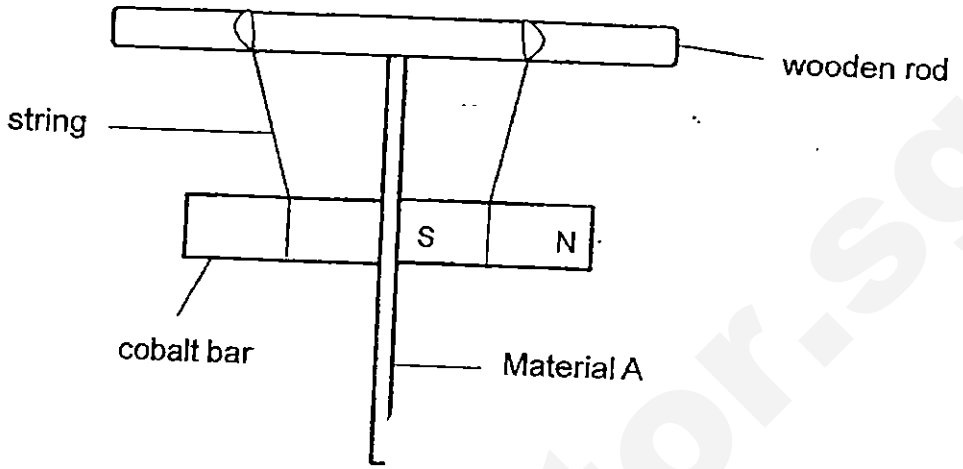
(4)



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30. Two bar magnets, suspended by strings, are tied to a wooden rod. A thin sheet made of material A is placed between the two [redacted]. The two bar magnets moved towards each other as shown below.



What is material A?

(1) Iron
(2) Steel
(3) Glass
(4) Nickel

End of Booklet A

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METHODIST GIRLS' SCHOOL

Founded in 1887

END-OF-YEAR EXAMINATION 2015
PRIMARY 3
SCIENCE

BOOKLET B

Total Time for Booklets A and B: 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.

Name: _____ ( )

Class: Primary 3._____

Date : 30 October 2015

Booklet A	60
Booklet B	30
Total	90
Parent's Signature	

This booklet consists of 11 printed pages including this page.

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For questions 31 to 40, write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part question.

[30 marks]

31. Taufiq set up an aquarium with 6 guppies. The graph below records how the number of guppies changed over time.

	Month				
	1st	2nd	3rd	4th	5th
Number of guppies	6	12	?	8	14

(a) What happened to the number of guppies from 1st month to 2nd month? [1]

(b) Explain your answer in (a). [1]

(c) Taufiq's younger brother added some soap by mistake into the aquarium at the end of 2nd month. Based on the above results, what could be the number of guppies that are still alive in the aquarium at the end of the 3rd month. Explain why. [1]

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32. Look at the six animals below.



(A) Bee



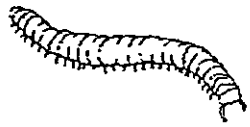
(B) Termite



(C) Housefly



(D) Grasshopper



(E) Millipede



(F) Spider

(a) Which two animals are **not** insects? Write the letters in the boxes below. [1]

Animals ☐ and ☐

(b) Give a reason for your answer in (a). [1]

_____

_____

(c) Why do insects have a hard outer covering? [1]

_____

_____

3

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33. Amri wanted to eat a piece of bread but found some greenish-grey spots on it.

(a) What were the greenish-grey spots found on Amri's bread? [1]

_____

_____

(b) Why are these greenish-grey spots in (a) harmful to us? [1]

_____

_____

(c) Give an example of a useful micro-organism. [1]

_____

3

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34. (a) Match the following adult animals to their young. [1]

Butterfly	Nymph
Grasshopper	Wriggler
Mosquito	Caterpillar

(b) Study the given animals below.



(i) Which group of animal does it belong to? [1]

_____

(ii) Describe one characteristic in which the adult is **different** from the young. (Do not compare the size, shape and colour). [1]

_____

_____

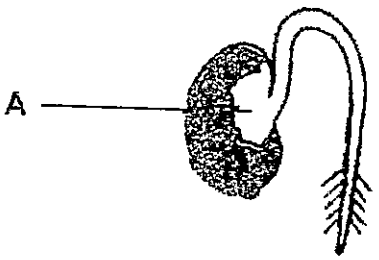
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35: The diagram below shows a seedling.



(a) What is the part labelled 'A'? [1]

_____

(b) How is part A useful to the seedling at this stage of the plant growth? [1]

_____

_____

(c) What will happen to part A as the seedling grows bigger? [1]

_____

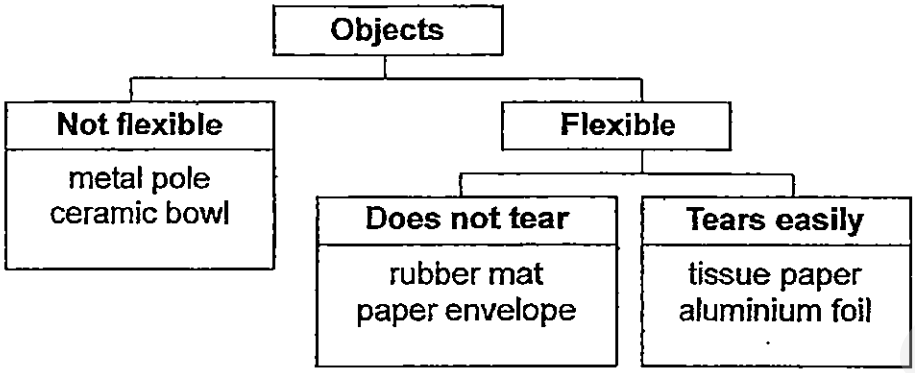
_____

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36. Jing Wen grouped some objects in the following way.

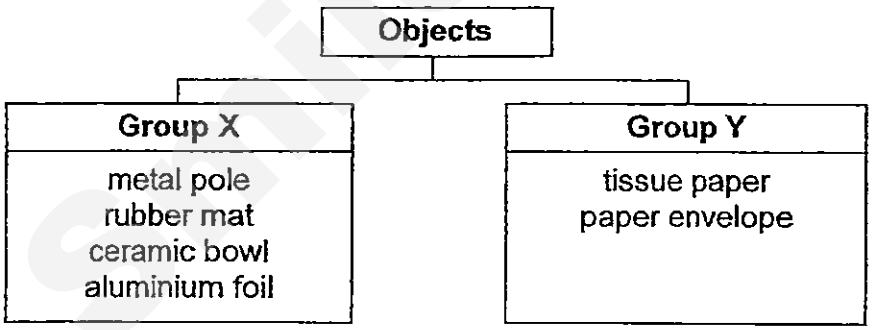


(a) Which one of the above objects has Jing Wen grouped **wrongly**? Give a reason for your answer. [1]

_____

_____

(b) Jing Wen decided to classify all the objects into Groups X and Y as shown below.



Which **property of material** is used to classify the objects into Group X and Group Y? [2]

Group X : _____

Group Y : _____

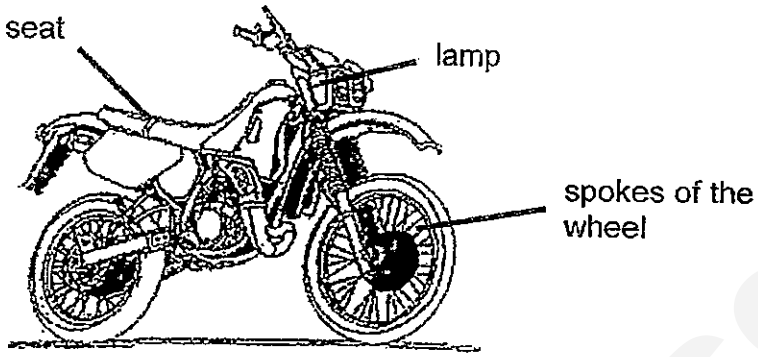
3

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37. The diagram below shows a motorcycle.



Fill in the blanks below under (a) and (b) with a suitable material that can be used to make each of the parts indicated above. State a property under (c) of the material that makes it suitable for that part. [3]

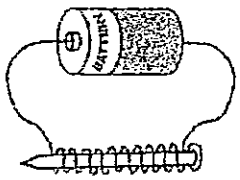
Part	Material	Property
lamp	(a) _____	Allows light to pass through it
seat	(b) _____	Flexible and waterproof
spokes	Metal	(c) _____

3

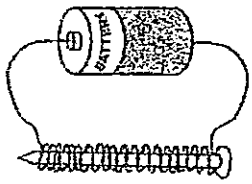
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38 Johan made two electromagnets as shown in the diagrams below.



20 turns of wire



30 turns of wire

He compared the strength of the two electromagnets by observing the number of pins attracted to each electromagnet. The results are shown below.

	Number of pins attracted
Iron nail A with 20 turns of wire	17
Iron nail B with 30 turns of wire	24

(a) What happens to the strength of the electromagnet when more turns of wire were used? [1]

_____

(b) Based on the results, give a reason for your answer in (a)? [1]

_____

(c) Suggest another way that would make the electromagnet attract more pins? [1]

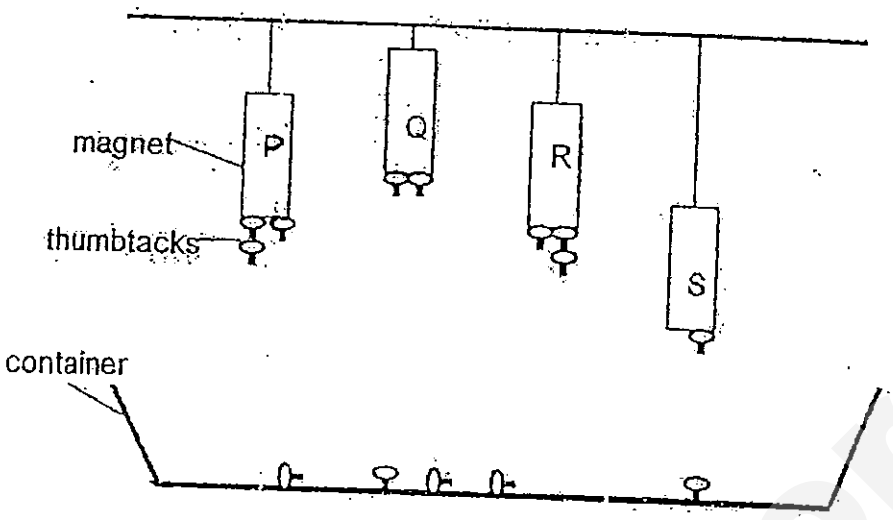
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3

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39. Ainah hung 4 different magnets, P, Q, R and S from the ceiling to test the strength of the magnets as shown below.



(a) Which two magnets have the same magnetic strength? Explain why. [2]

(b) Ainah concluded that Magnet Q is the strongest. Do you agree with Ainah? Give a reason for your answer. [1]

3

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40. Sandy used the 'stroke' method to make an iron rod into a temporary magnet. She recorded her observations in the table below.

Number of strokes	20	40	60
Number of paper clips attracted to the magnet	3	8	12

(a) Based on the results, what could Sandy conclude about the number of strokes and the strength of the magnet? [1]

_____

_____

(b) Name another material that the rod can be made of, in order to be made into a magnet. [1]

_____

_____

(c) Suggest another method Sandy can use to magnetise the iron rod. [1]

_____

End of Booklet B

3

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : METHODIST GIRLS' SCHOOL
SUBJECT : SCIENCE
TERM : SA2

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
4	**3**	**3**	**3**	**4**	**2**	**1**	**4**	**3**	**3**
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
4	**3**	**2**	**3**	**1**	**2**	**1**	**3**	**4**	**4**
Q21	Q22	Q23	Q24	Q25	Q 26	Q 27	Q 28	Q 29	Q 30
1	**4**	**4**	**3**	**2**	**2**	**4**	**4**	**1**	**3**

Q31a. The number increased.

Q31b. The guppies reproduced.

Q31C. There could be two guppies. They need clean water to survive.

Q32a. Animals E and F

Q32b. Animals E and F have more than six legs unlike insects, who only have six legs.

Q32c. The hard outer coverings is to protect them.

Q33a. The greenish – grey spots were bread mould.

Q33b. Inside, there is harmful bacteria that can make us sick.

Q33c. Yeast.

Q34a. Butterfly – Caterpillar
Q34a. Grasshopper – Nymph
Q34a. Mosquito – Wriggler

Q34b. (i) The amphibian group.
Q34B. (ii) The young has a tail but the adult tadpoles not.

Q35a. The seed leaf.

Q35b. It provides food for the seed until the seedling can make its own food.

Q35c. Part A will gradually drop off as the seedling can already make its won food.

Q36a. Paper envelope as paper tears easily.

Q36b. Group X: Waterproof Group Y : Non – waterproof

Q37a. Glass b. Plastic c. Stiff

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Q38a. The magnetic strength will increase.

Q38b. There are more pins attracted by the electromagnet.

Q38c. He could add more batteries.

Q39a. P and R because they were hung at the same length and attracted the same number of thumbtacks.

Q39b. No, because the test was unfair as all the magnets were hung at different heights.

Q40a. The more times she stroked the iron rod, the stronger the iron rod's magnetic strength.

Q40b. Steel

Q40c. He could use the induction method.

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NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 – 2015
PRIMARY 3

SCIENCE

BOOKLET A

30 Multiple Choice Questions (48 marks)

Total Time for Booklets A and B : 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.

Marks Obtained

Booklet A		/ 48
Booklet B		/ 32
Total		/ 80

Name: _____ ( ) Class: P 3

Date : 30 October 2015 Parent's signature: _____

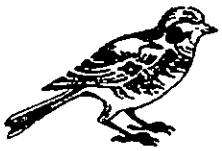
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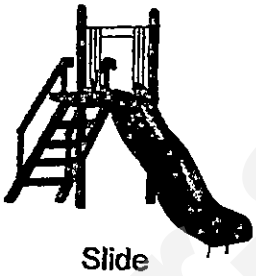
Section A: (24 x 2 marks = 48 marks)

For each question from 1 to 24, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Jacky saw the following things in his neighbourhood.



Bird



Slide



Rubbish bin



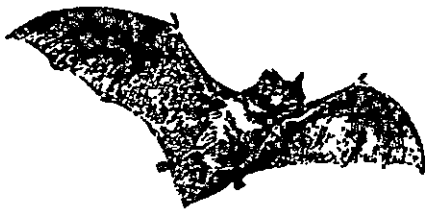
Car

Jacky classified these things using the characteristics of living and non-living things. Which of the above does not belong to the same group as the others?

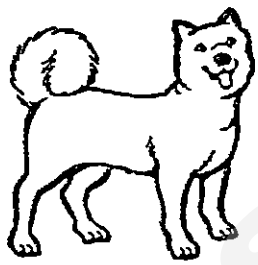
(1) Car
(2) Bird
(3) Slide
(4) Rubbish bin

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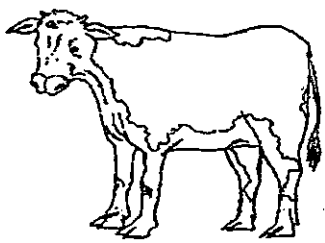
2. The four animals shown in the diagrams below were placed in the same group.



Animal A



Animal B



Animal C

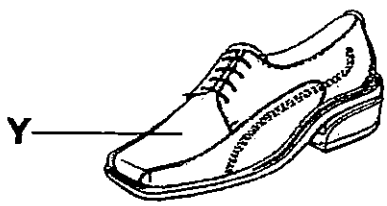


Animal D

The animals belong to the same group because _____.

(1) they can fly
(2) they lay eggs
(3) they live on land and in water
(4) they have hair as an outer covering

3. The diagram below shows a pair of shoes.



Which one of the following materials is suitable for making part Y?

(1) Glass
(2) Metal
(3) Paper
(4) Leather

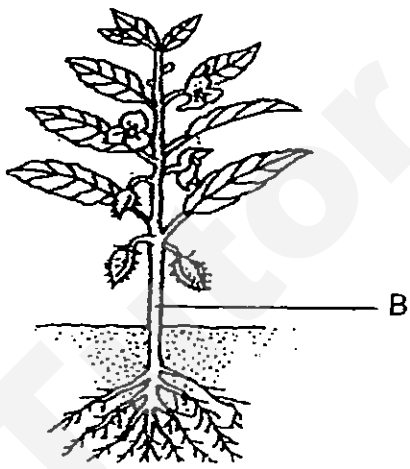
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4. Metal is a suitable material for making a key because it _____.

(1) is strong
(2) is flexible
(3) sinks in water
(4) does not allow light to pass through

The picture below shows a balsam plant. Please answer Questions 5 and 6 based on the diagram below.



Balsam plant

5. What is the function(s) of part B of the plant?

A Anchors the plant firmly to the ground
B Transports food from the leaves to the rest of the plant
C Transport water from the roots to the other parts of the plant
D Supports the leaves in order to get as much sunlight as possible

(1) A only
(2) A and D only
(3) B and C only
(4) B, C and D only

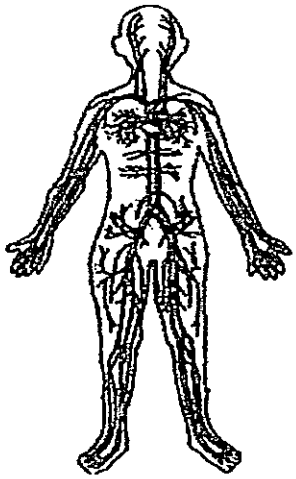
6. Some water containing red dye was poured into the soil of the balsam plant above. After a few hours, some parts of the flowers and leaves turned red. Which of the following statements correctly explains the observation?

(1) Water does not flow to the flowers and the leaves.
(2) Water is taken in by the leaves and transported to the flowers.
(3) Water is taken in by the roots and transported to the flowers and leaves.
(4) Water is taken in by the leaves and flowers and is transported to the roots.

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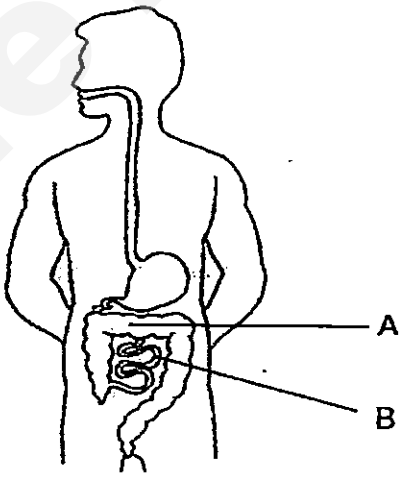
7. The diagram below shows the circulatory system found in the human body.



Which of the following statements about the circulatory system is correct?

(1) It takes in oxygen for the body.
(2) It breaks food down into simple substances.
(3) It is made up of the heart, lungs and blood vessels.
(4) It carries digested food, water and oxygen to different parts of the body.

8. The diagram below shows a system found in the human body.



Which of the following takes place at the part labelled A and B?

	A	B
(1)	Removal of water from undigested food	Digestion is partially completed
(2)	Absorption of digested food	Removal of water from undigested food
(3)	Removal of water from undigested food	Absorption of digested food
(4)	Digestion is .partially completed	Digestion is fully completed

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9. Which of the following organs **does not** secrete digestive juices?

A: Mouth
B: Gullet
C: Stomach
D: Small intestine
E: Large intestine

(1) A and B only
(2) B and E only
(3) C and D only
(4) D and E only

10. A group of students made the following statements during their Science lesson:

Aaron: A magnet can exert a push or a pull.
Belle: Like poles attract, while unlike poles repel.
Carl: As long as it is a magnet, it can attract metals.

Which of the following student(s) is/ are correct?

(1) Aaron only
(2) Belle only
(3) Aaron and Belle only
(4) Aaron, Belle and Carl

11. The table below shows two groups of objects.

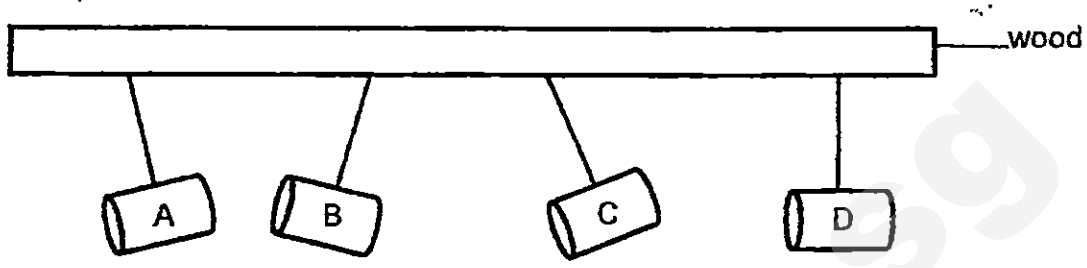
Group X	Group Y
Wine cork	Glass marble
Styrofoam plate	Metal spoon

Which one of the following sets of headings for Groups X and Y is correct?

	Group X	Group Y
(1)	Inflexible	Flexible
(2)	Not waterproof	Waterproof
(3)	Float on water	Sinks in water
(4)	Does not allow light to pass through	Allows light to pass through

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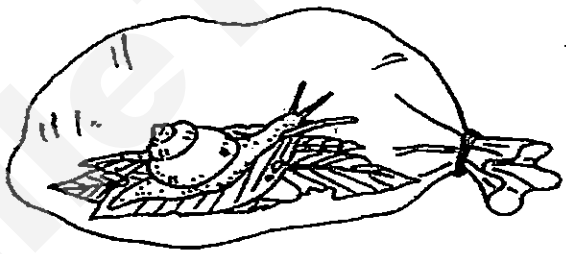
12. Tom hung four metal rods (A, B, C and D) tied with identical strings from a piece of wood as shown below. Then he observed that they had moved and remained at the positions as shown below.



Which of the metal rods are definitely magnets?

(1) A and B
(2) A and D
(3) B and C
(4) C and D

13. Karen caught a snail in her garden. She kept her snail in a sealed plastic bag as shown below.



After a few hours, Karen found that the snail had died.
Which of the following is most likely the reason for the snail's death?

(1) The snail did not have enough air.
(2) The snail did not have enough food.
(3) The snail did not have enough space.
(4) The snail did not have enough sunlight.

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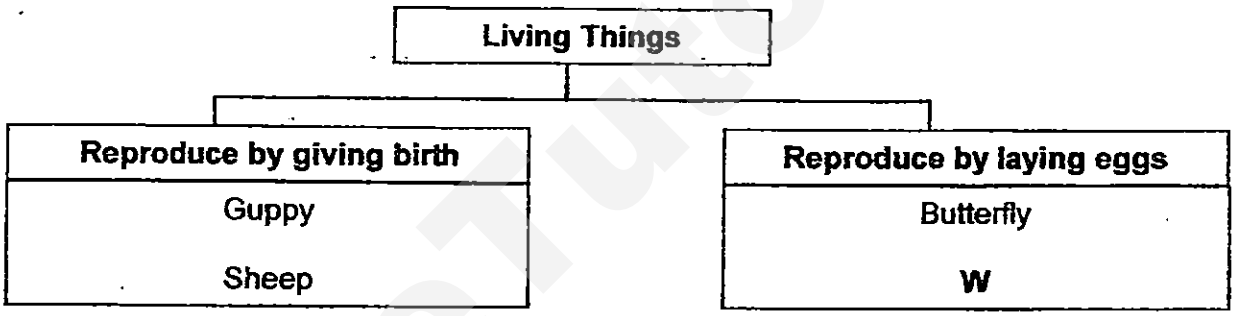
14. Yongli observed an animal in his school garden for a week and made the following notes.

It lays eggs.
It has no legs.
It breathes through gills.

The animal that Yongli observed is most likely a/an _____.

(1) fish
(2) bird
(3) insect
(4) reptile

15. Study the classification chart below carefully.

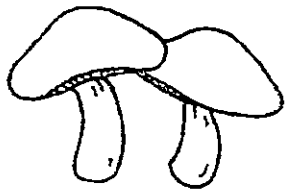


What could "W" be?

(1) Cow
(2) Frog
(3) Horse
(4) Monkey

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16. Samy made some observations about two organisms as shown below.



Mushroom



Fern

Which one of the following is a similarity between the two organisms?

(1) Both of them are fungi.
(2) Both of them reproduce by spores.
(3) Both of them are non-flowering plants.
(4) Both of them need sunlight to make food.

17. Mr Tan tested four materials (W, X, Y and Z) to find out how much water each material can absorb. He weighed each piece of material at the start of the experiment. He then pushed each material into a pail of water for 1 minute. He recorded the mass of each material after he removed them from the water. His results are shown in the table below.

Material	Mass at the start of the experiment	Mass after it was removed from the water
W	100g	180g
X	150g	200g
Y	200g	205g
Z	130g	160g

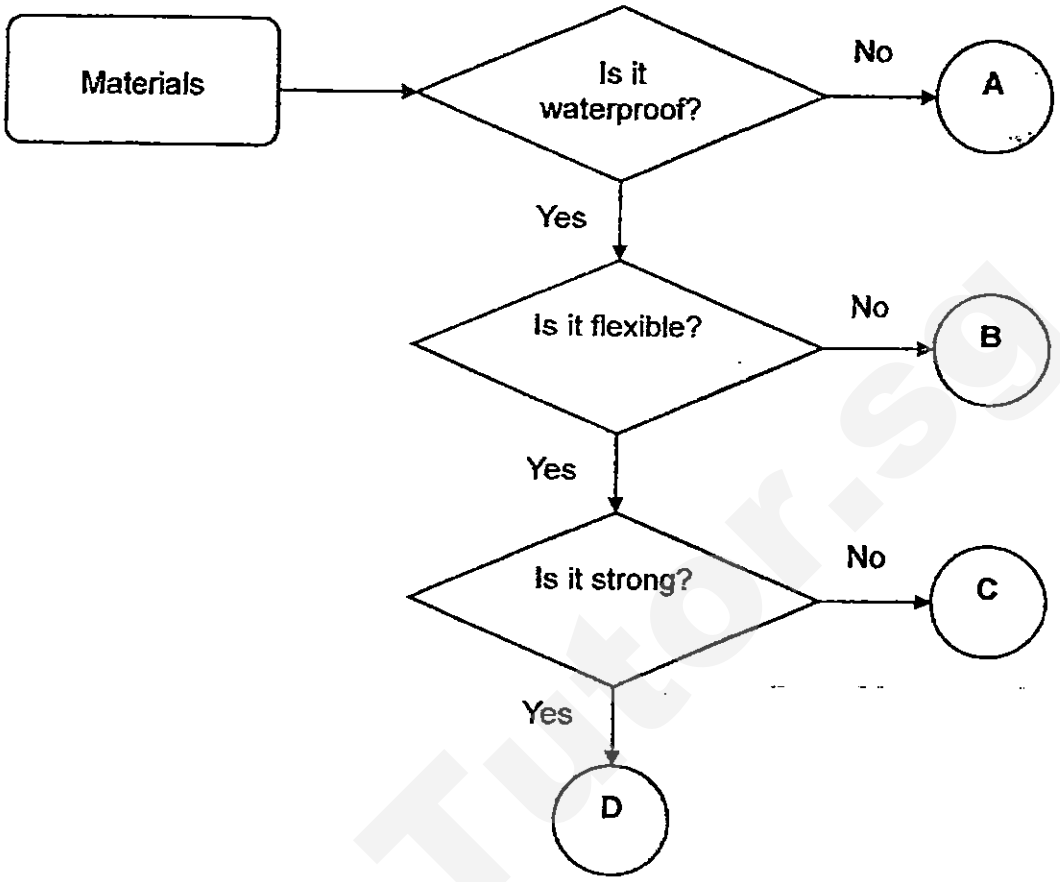
Which of these materials (W, X, Y or Z) is most suitable for making a raincoat?

(1) W
(2) X
(3) Y
(4) Z

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18. Study the flowchart below.



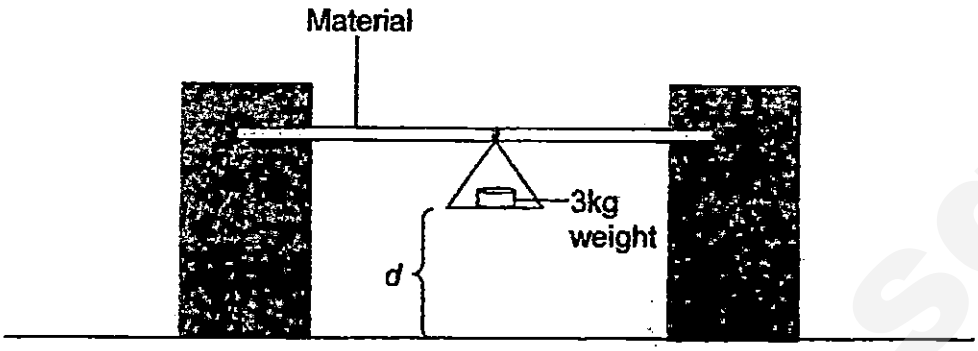
Which of the following letters will most likely represent ceramics?

(1) A
(2) B
(3) C
(4) D

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19. Hui Ping wanted to test the flexibility of materials D, E, F and G. She attached a 3kg weight to each material and measure distance "*d*" as shown in the set up below.



She recorded her results as shown in the table below.

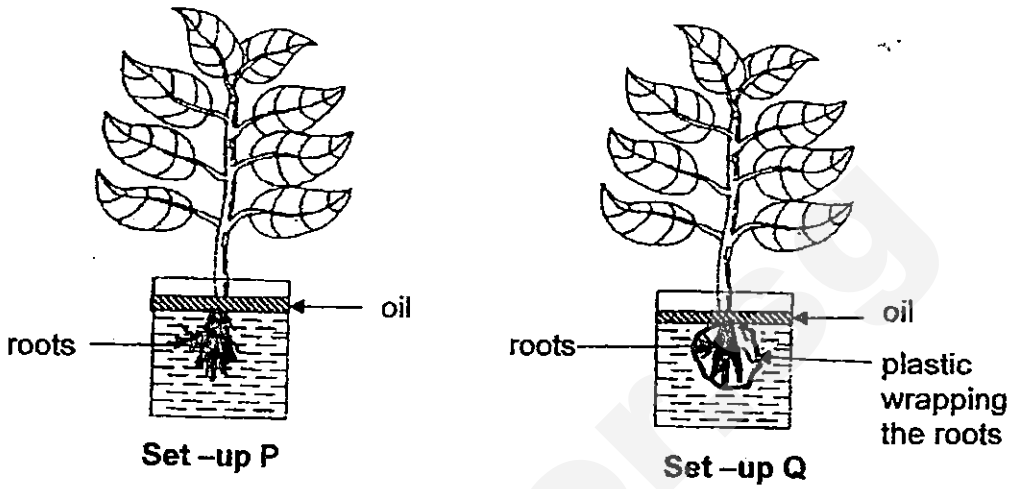
Material	*d* (in cm)
D	3
E	5
F	8
G	4

From the results, which material is the most flexible?

(1) D
(2) E
(3) F
(4) G

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20. Sam placed two similar plants in identical beakers, each containing equal amount of water in the garden during the day. The set-ups are labelled P and Q.

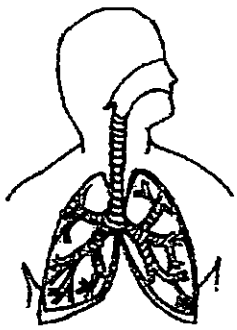


Which of the following correctly identifies the aim of the experiment and the water level in Set-up Q after 4 days?

	Aim of experiment	Water level in Set-up Q
(1)	To find out if the roots of the plant take in water.	Goes down
(2)	To find out if the roots of the plant take in water.	Remains unchanged
(3)	To find out if the number of leaves will affect the amount of water absorbed by the plant.	Remains unchanged
(4)	To find out if the number of leaves will affect the amount of water absorbed by the plant.	Goes down

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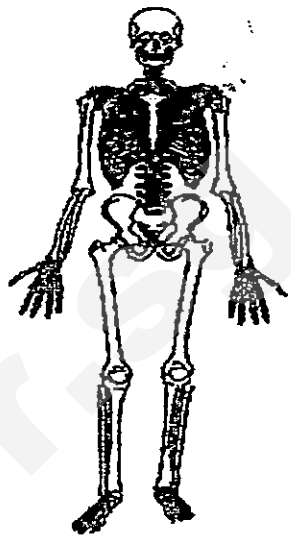
21. The diagrams below show three body systems (A, B and C).



System A



System B



System C

Which system(s) enable(s) John to skip?



(1) B only
(2) C only
(3) A and C only
(4) A, B and C

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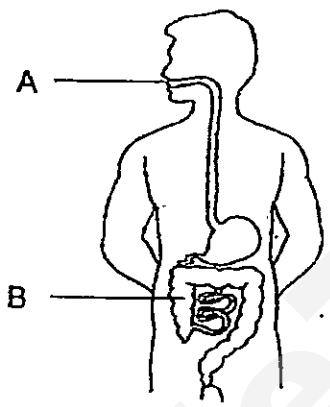
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22. Tom has just eaten a plate of chicken rice during recess.
However, Parts A and B of his digestive system are not working properly.

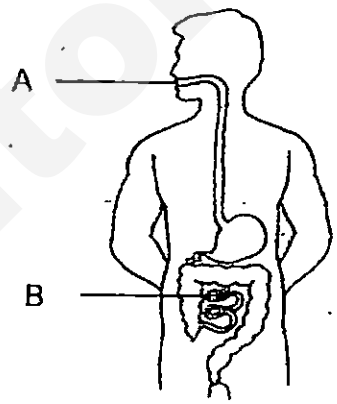
Parts that are not working properly	Problems
A	Bigger pieces of food have gone into his stomach.
B	Digested food is not absorbed completely into his bloodstream.

Which diagram below correctly shows Parts A and B of his digestive system that are not working properly?

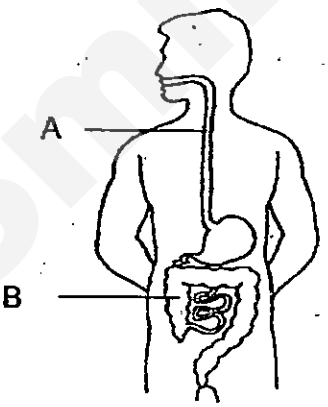
(1)



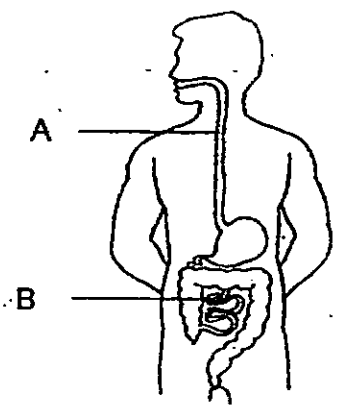
(2)



(3)



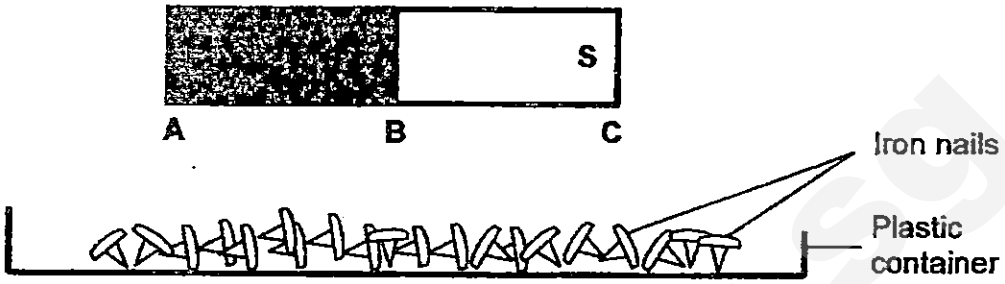
(4)



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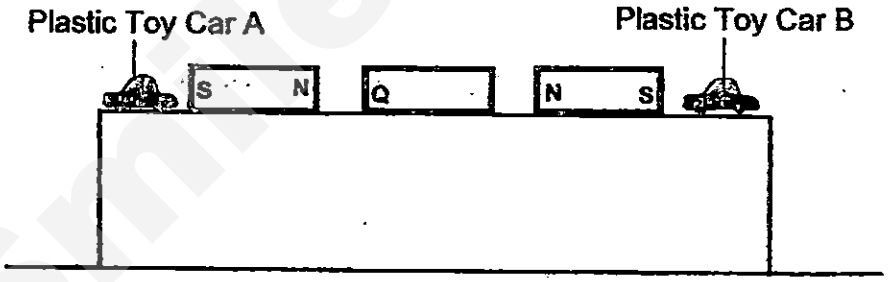
23. Alice has a bar magnet as shown below. She wants to attract some iron nails in a container.



Which of the following shows the likely results for the number of iron nails attracted by parts A, B and C of the bar magnet?

	A	B	C
(1)	8	8	4
(2)	4	8	8
(3)	4	2	14
(4)	8	4	8

24. Three magnets are placed next to one another as shown. If Q is the South pole of the magnet, what will most likely happen to Toy Car A and Toy Car B?



	Toy Car A	Toy Car B
(1)	It will stay where it is.	It will stay where it is.
(2)	It will stay where it is.	It will be knocked off the edge of the table.
(3)	It will be knocked off the edge of the table.	It will stay where it is.
(4)	It will be knocked off the edge of the table.	It will be knocked off the edge of the table.

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NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 – 2015
PRIMARY 3

SCIENCE

BOOKLET B

14 Open-ended questions (32 marks)

Total Time for Booklets A and B : 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.

Marks Obtained

Section B		/ 32

Name: _____ ( ) **Class: P 3** _____

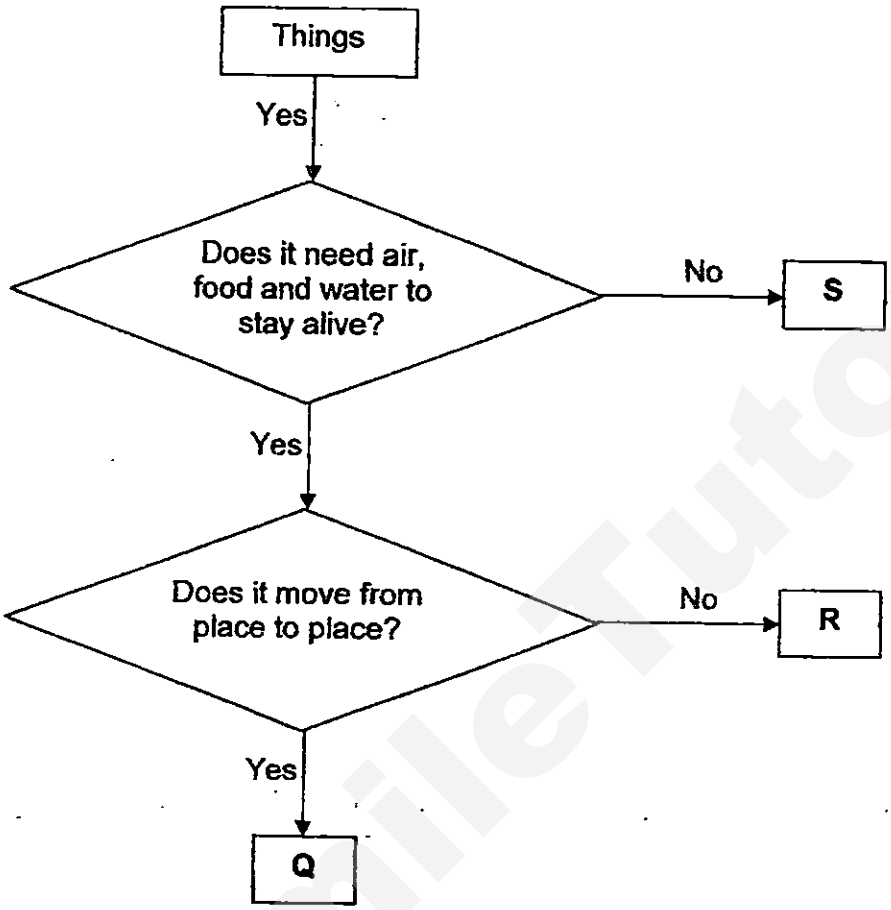
Date : 30 October 2015 **Parent's Signature:** _____

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Section B: (32 marks)
Write your answers to questions 25 to 34 in the space provided.
The number of marks allocated is shown in brackets [ ] at the end of each question or part of the question.

25. The flowchart below shows the characteristics of three things (Q, R and S).



(a) Based on the flowchart above, list one characteristic of Thing R. [1]

_____

_____

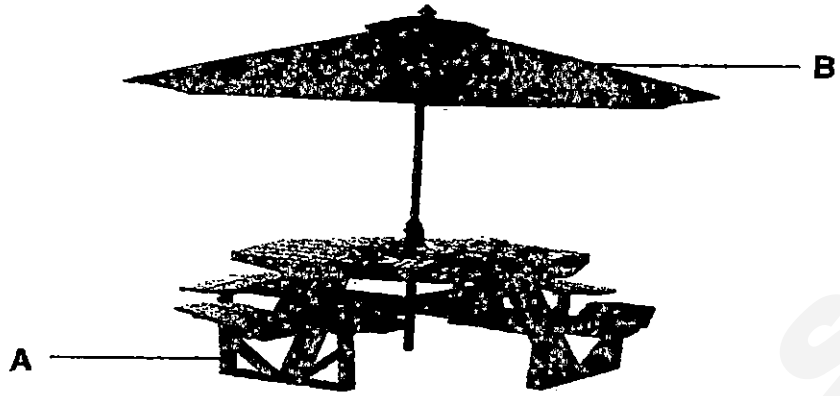
(b) Based on the flowchart above, which group of living things does "Q" belong to? [1]

_____

Score 2

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26. Mr Chan wanted to build a picnic bench with a foldable umbrella to be placed in his garden as shown in the picture below.



He investigated some properties of three materials (D, E and F). The table below shows the properties of these materials.

Material	Properties
D	• Strong • Waterproof • Not flexible
E	• Strong • Not waterproof • Flexible
F	• Strong • Waterproof • Flexible

(a) Which materials are suitable for making parts A and B of the picnic bench? Circle the material. [2]

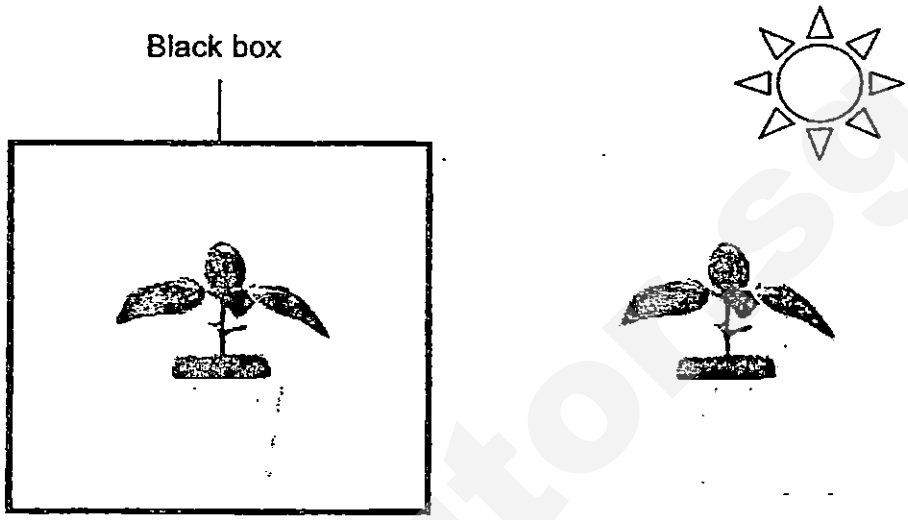
(i) **Part A :** Material D / Material E / Material F

(ii) **Part B :** Material D / Material E / Material F

Score 2

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27. Study the two set-ups A and B below. Both are similar plants which are given the same amount of water and garden soil. Set-up A was placed in a black box while Set-up B was placed in the open under bright light.



Set-up A Set-up B

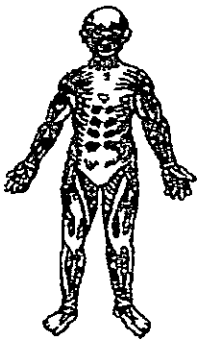
(a) What will happen to Set-up A and B after a few days? [1]

(b) Besides carrying out gaseous exchange for the plant, what is another main function of the leaf? [1]

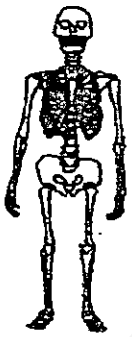
Score /2

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28. The diagram below shows two types of human body systems, W and X.



Body System W



Body System X

(a) Identify the two human body systems above. [2]

W : _____System X : _____System

(b) Human system W and human system X work together to enable us to

_____ [1]

29. Javier is given a bar magnet and the following objects listed in the box below. He wants to find out which objects are made of magnetic materials.

steel rod	copper wire	aluminium foil	iron nail

(a) Describe how Javier can find out which objects are made of magnetic materials. [2]

_____

_____

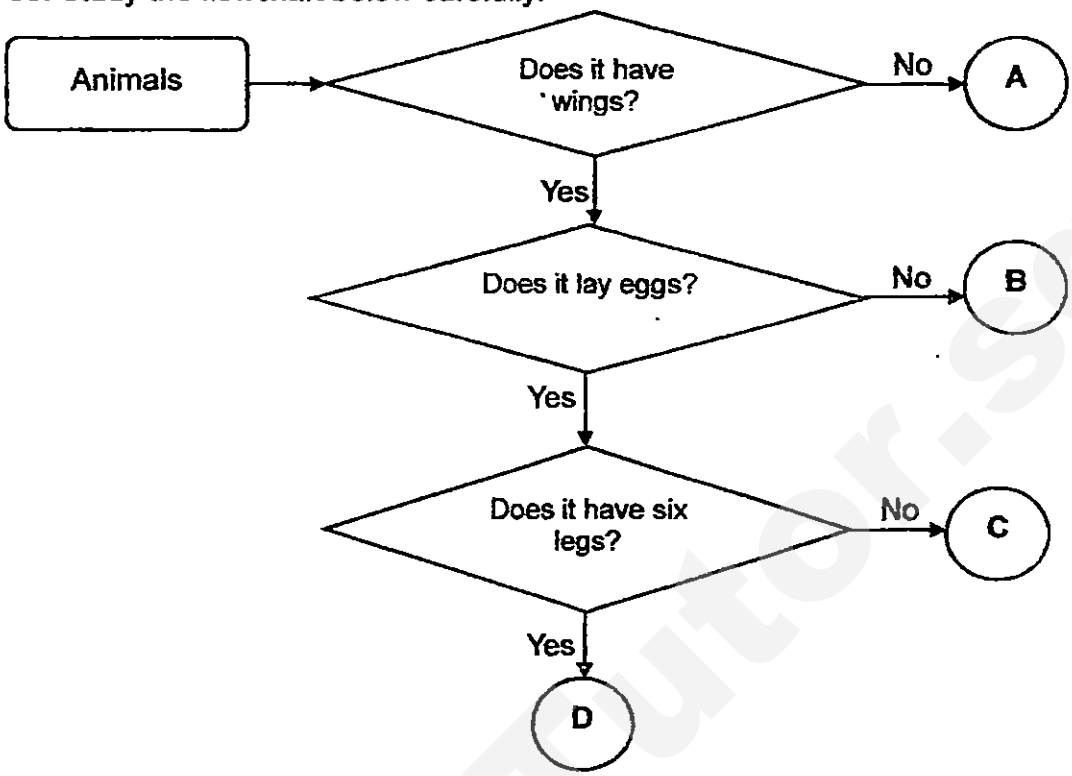
(b) Put a tick (√) in the correct boxes below to show if the object is magnetic or non-magnetic. [2]

Object	Magnetic	Non-magnetic
Steel rod		
Copper wire		
Aluminium foil		
Iron nail		

Score 7

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30. Study the flowchart below carefully.



(a) Use the helping words in the box below to fill in each blank. [2]

mammal	fish	insect	bird

According to the flowchart,

(i) **A** is most likely a _____

(ii) **B** is most likely a _____

(iii) **C** is most likely a _____

(iv) **D** is most likely a _____

(b) Based on the flowchart above, state one difference between Animals A and B. [1]

_____

_____

(c) Based on the flow chart above, state one similarity between Animals C and D. [1]

_____

_____

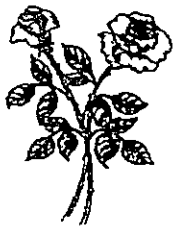
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Score /4

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31. Study the two groups (S and T) of living things shown below.

Group S



Rose

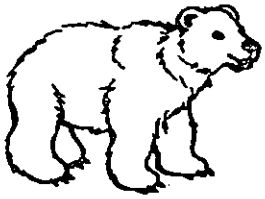


Bird's Nest Fern



Bamboo

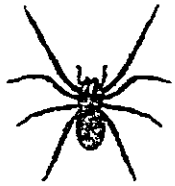
Group T



Bear



Chicken



Spider

(a) Give a suitable heading for each of the groups above. [2]

Group S : _____

Group T : _____

(b) Which group (S or T) does the butterfly belong to? [1]

_____

(c) State one difference between the Rose and the Bird's Nest Fern. [1]

_____

_____

Score / 4

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32. Lisa conducted some tests on materials W, X, Y and Z. The results of the tests are shown in the table below. A tick (√) indicates that the material has the property.

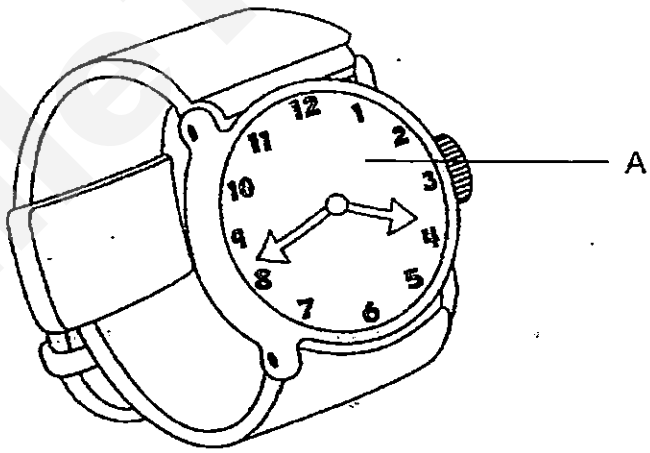
Property	Materials			
	W	X	Y	Z
Strong		√		
Flexible			√	
Waterproof	√	√		√
Transparent	√			
Floats on water				√

(a) Based on the table above, state two properties of Material Y. [1]

_____

_____

(b) Study the diagram below. Part A of the watch, which is above the watch face, protects the face and hands of the watch.



Which material (W, X, Y or Z) is suitable for making part A? Explain your answer clearly. [2]

_____

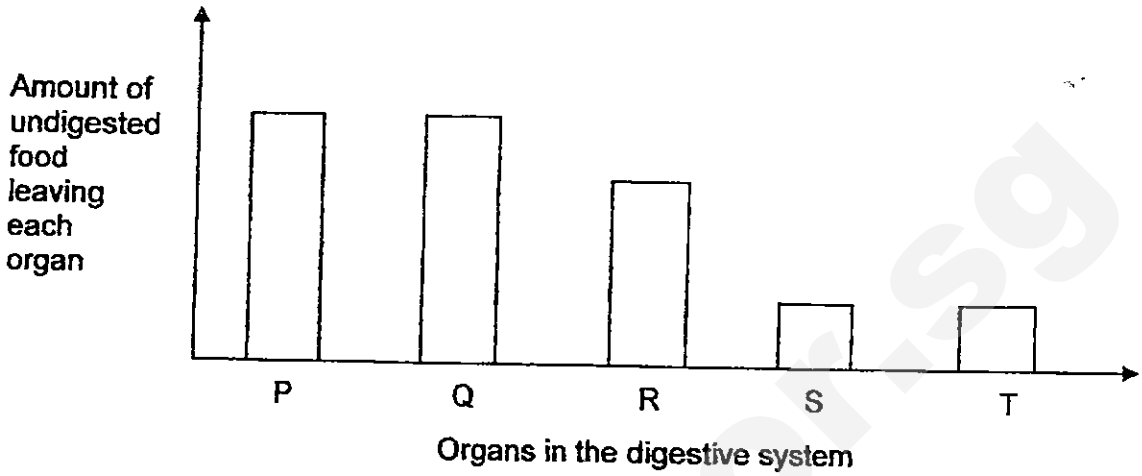
_____

Score 3

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33. The graph below shows the amount of undigested food leaving each organ in the human digestive system.



(a) Based on the graph above, what does part R represent? [1]

_____

(b) Based on the graph above, what happens to the amount of undigested food in part Q? Explain your answer [2]

_____

_____

(c) Based on the graph above, which part of the digestive system (P, Q, R, S or T) is digestion completed? [1]

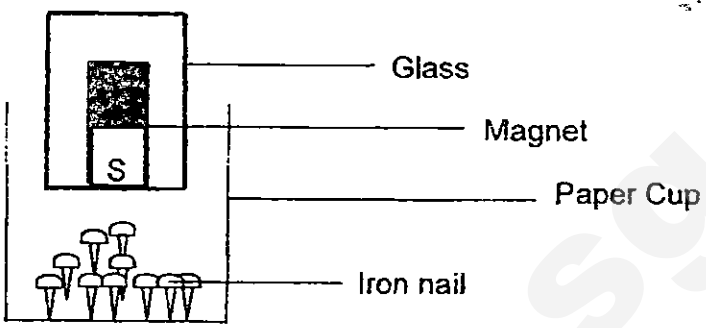
_____

Score 4

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34. Tom has been told by his teacher that magnetism can pass through non-magnetic materials. He set up the following apparatus. He placed a magnet in a glass box and a few iron nails into a paper cup.

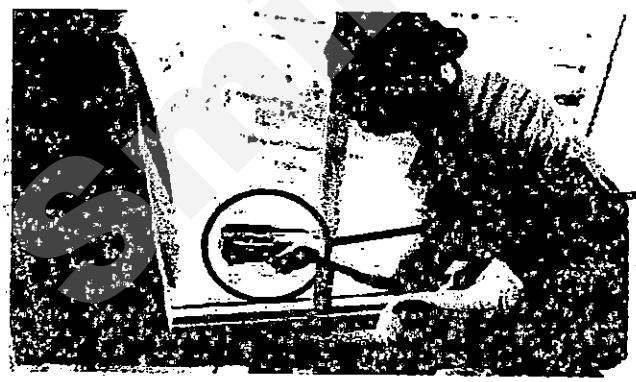


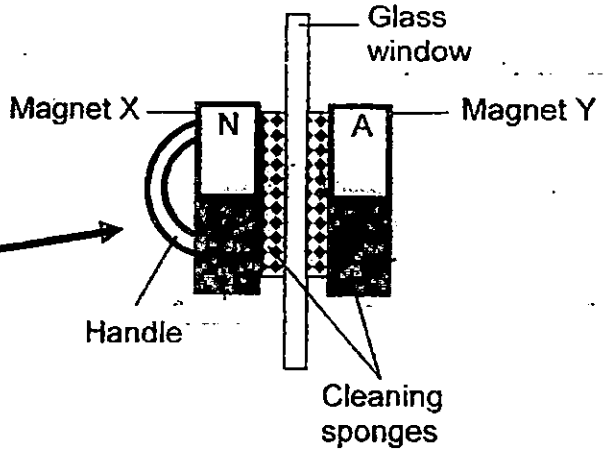
(a) What will happen to the iron nails? [1]

_____

_____

The picture below shows a woman using a window cleaner to clean her windows. She is holding the handle of the cleaner which is on the inside of the window and slide it up and down in order to use the cleaning device. The two cleaning sponges will move together.





(b) Identify the poles of Magnet Y. [1]

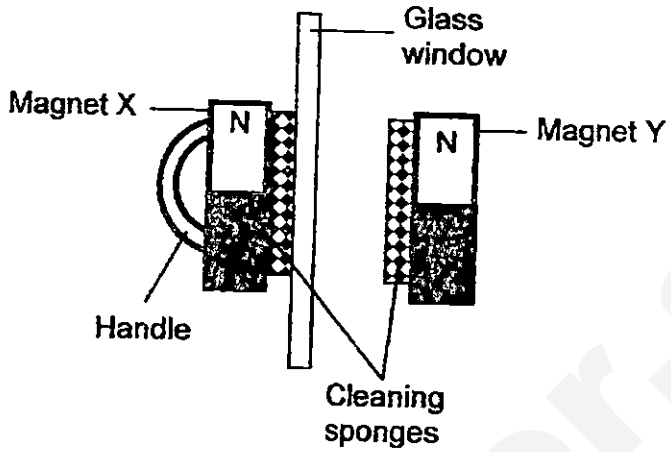
A : _____

B : _____

Score 2

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(c) Mrs Lim bought the same cleaning device and set it up as shown below. However, Mrs Lim's cleaning device does not work.



Explain why Mrs Lim's device does not work if she set it up as shown above.

[2]

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~ End of Paper ~

Score / 2

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : NAN HUA PRIMARY SCHOOL
SUBJECT : SCIENCE
TERM : SA2

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
2	**4**	**4**	**1**	**4**	**3**	**4**	**3**	**2**	**1**
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
3	**3**	**1**	**1**	**2**	**2**	**3**	**2**	**1**	**2**
Q21	Q22	Q23	Q24						
4	**2**	**4**	**2**						

Q25a. R need air,food and water to stay alive. Thing R does not move from place to place.

Q25b. Animals.

Q26a. (i) Part A : Matrial D (ii) Part B: Material F

Q27a. The plants in Set up A will die, but the plants in set up B will stay alive.

Q27b. The leaf will absorb sunlight to make food for the plant.

Q28a. W: Musular X: Skeletal system

Q28b. Move

Q29a. Javier can place a magnet near the objects and see which object get attracted.

Q29b. Steel rod: Magnetic / Copper wire: Non – magnetic
Q29b. Aluminium foil : Non – magnetic / Iron nail : Magnetic

Q30a (i) A – fish (ii) B – mammal (iii) C – bird (iv) D – insect

Q30b. B has wings while A does not.

Q30c. They both lay eggs.

Q31a. Group S: plants Group T: Animals

Q31b. Group T Q31c. Bird's nest fern reproduce by spores while rose does not.

Q32a. Material Y sinks in water and is flexible.

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Q32b. Material W, because it is transparent, so we can see what time the watch is showing through it, and it is waterproof, so that it will not spoil when we spill water on it.

Q33a. The stomach Q33b. The amount of undigested food will remain unchanged because part Q pushes the food down to part R.

Q33c. The amount of food remains constant as there is no digestion taking place at Q.

Q34a. The magnetic force will pass through the glass and the iron nail will get attracted.

Q34b. A: South B: North

Q34c. The like poles of Magnet X and Y were facing each other. Thus the two magnets will repel each other and the cleaning device will not work.

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NANYANG PRIMARY SCHOOL

PRIMARY 3 SCIENCE

SEMESTRAL ASSESSMENT 2
2015

BOOKLET A

Date : 27 October 2015
Duration : 1 h 20 min

Name : _____ **(-)**

Class: Primary 3 ( )

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Booklet A consists of 14 printed pages including this cover page.

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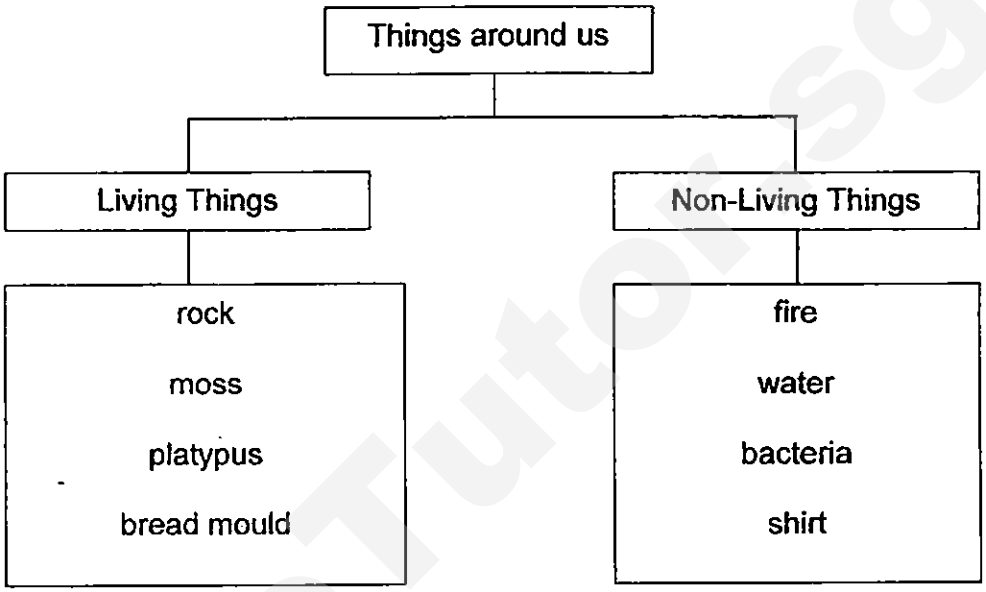
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Section A (24 x 2 marks = 48 marks)

For each question from 1 to 24, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4).

Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet provided.

1. The table below shows a classification diagram of things that are placed into two different groups.



Based on the classification diagram above, which of the following things are wrongly classified?

(1) rock and bacteria
(2) water and platypus
(3) moss and shirt
(4) bread mould and fire

2. Three pupils gave examples of how living things respond to changes in the environment.

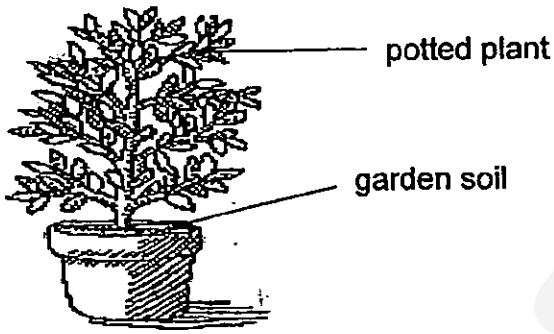
Siti : The bird lays eggs in the nest.
Devi : The owl hunts for food in the night.
Jimmy : An indoor plant grows towards the window.

Which of the following pupil(s) had given the correct example?

(1) Siti only
(2) Devi only
(3) Siti and Jimmy only
(4) Devi and Jimmy only

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3. Fabian bought four similar pots of plants as shown below and placed them along the corridor where there was sunlight.



He watered the plants daily with different amount of water. The table below records his observations after five days.

Plant	Cup(s) of water	Observation after five days
A	0	dying
B	10	grows poorly
C	20	grows well
D	30	dying

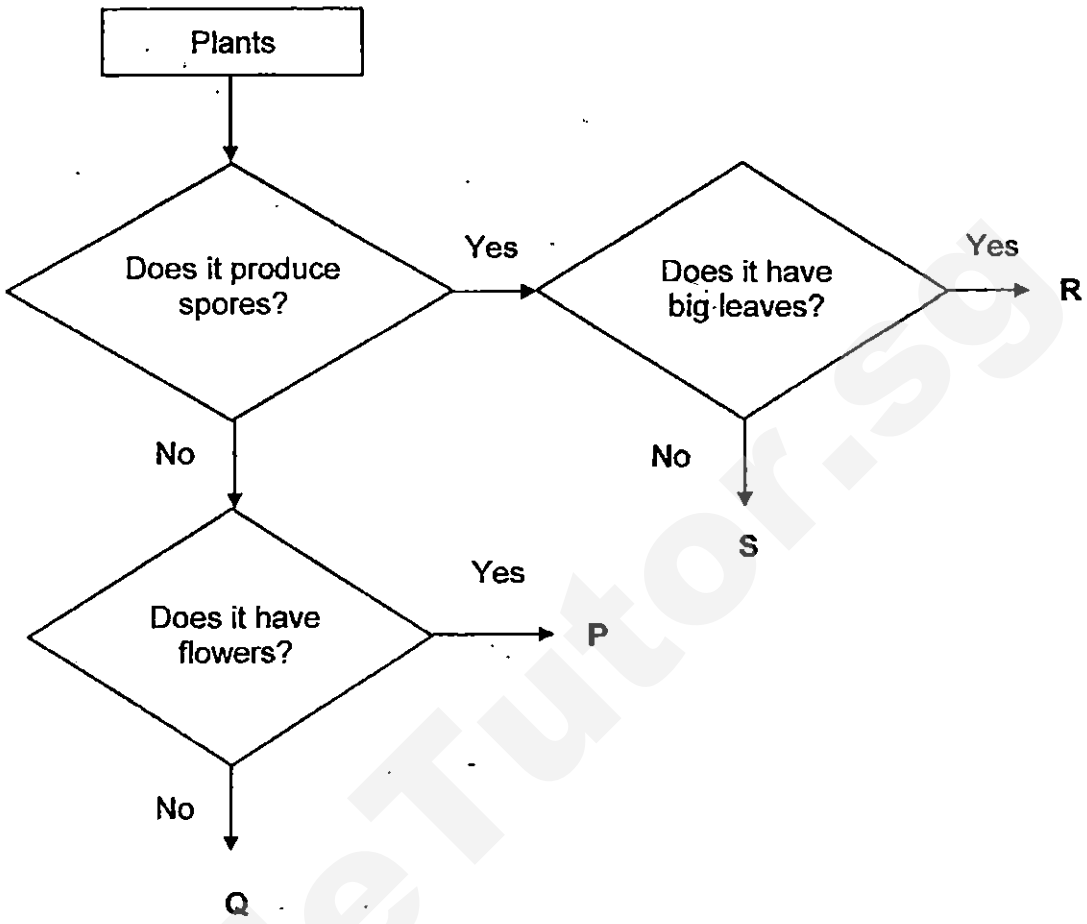
Both plant A and plant D were dying.
What could have caused plant D to die?

(1) There was too much wind.
(2) He had given plant D too much water.
(3) He did not give plant D enough water.
(4) There was too much light where plant D was placed.

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4. Study the flowchart below.



Based on the flowchart, which one of the following letters represents 'moss' ?

(1) P
(2) Q
(3) R
(4) S

5. Joe saw animal X on his trip to an island. He described the animal as the following:

- It could swim in water.
- It fed its young with milk.
- It reproduced by laying eggs.

Which group does animal X belongs to?

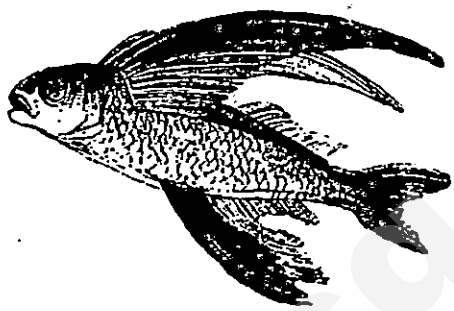
(1) fish
(2) mammals
(3) amphibians
(4) reptiles

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6. The picture below shows an insect and a fish.



insect



fish

Jenna made the following statements about the insect and the fish.

A Both have wings.
B Both reproduce by laying eggs.
C The body covering of the insect and the fish is hard.

Which of the following is/are common characteristic(s) of an insect and a fish?

(1) C only
(2) A and B only
(3) B and C only
(4) A, B and C

7. Joanne said that she had difficulties grouping reptiles and amphibians. Her friends gave her several suggestions on how she could group these animals.

	Suggestion
Kayla	Check if they lay eggs.
Hui Min	Check if they have backbones.
Elliot	Check if they have moist or dry skin.
Gordon	Check if they have a constant body temperature.

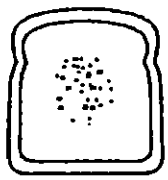
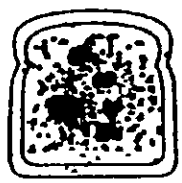
Which one of her friends had given the best suggestion?

(1) Elliot
(2) Kayla
(3) Hui Min
(4) Gordon

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8. Kristen wanted to find out how different amount of water affects the growth of bread mould. She used four slices of bread and kept them in separate sealed plastic bags. They were left at two different places to test for the growth of bread mould after two weeks.

The results were shown below.

On the kitchen table top  Bread A 10 drops of water added	In a dark cupboard  Bread B 10 drops of water added
On the kitchen table top  Bread C 20 drops of water added	In a dark cupboard  Bread D 20 drops of water added

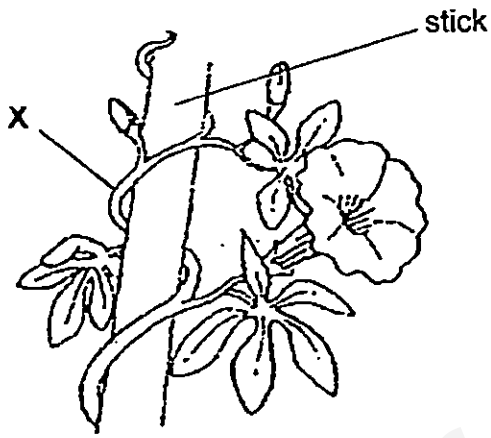
Based only on the results above, which one of the following statements about the bread mould is true?

(1) The amount of light will affect the growth of the bread mould.
(2) The place the bread is kept affects the growth of the bread mould.
(3) The amount of water added does not affect the growth of the bread mould.
(4) The amount of water added to the bread will affect the growth of the mould.

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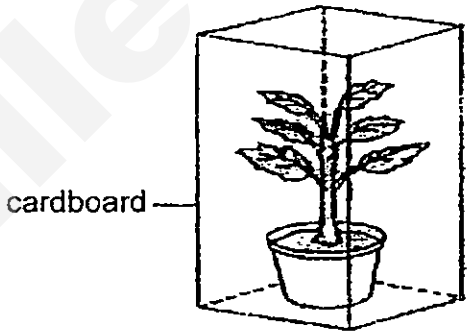
9. Amir found the following plant in the garden.



What is the function of part X of the plant?

(1) To help the plant to absorb nutrients.
(2) To help the plant absorb water and make food.
(3) To help the plant to grow towards sunlight to make food.
(4) To help the plant to move around freely from one place to another.

10. Angel placed a plant in a cardboard box. There were no holes on the cardboard box. The plant was watered every day.

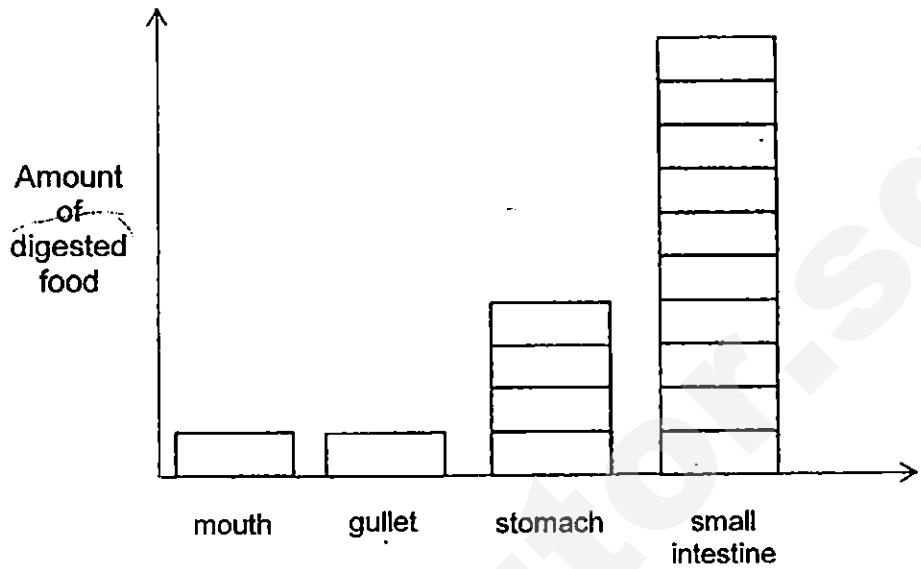


What would most likely happen to the plant after 2 weeks?

(1) The plant would grow taller.
(2) The plant would remain healthy.
(3) The plant would die due to lack of air.
(4) The plants would die due to lack of food.

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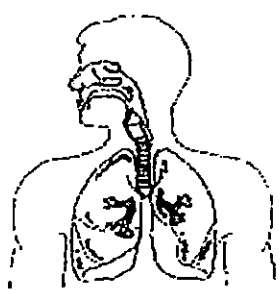
11. Nakim had some food for dinner. The graph below shows the amount of food that had been digested when the meal passed through the organs in his digestive system.



Based on the graph, which one of the following descriptions about the digestive system is **true**?

(1) Digestion starts and ends in the mouth.
(2) All food are digested in the small intestine only.
(3) Gullet does not produce any digestive juice to digest the food.
(4) Stomach produces the most digestive juice so that it can digest most of the food.

12. Study the diagram of a human system below.



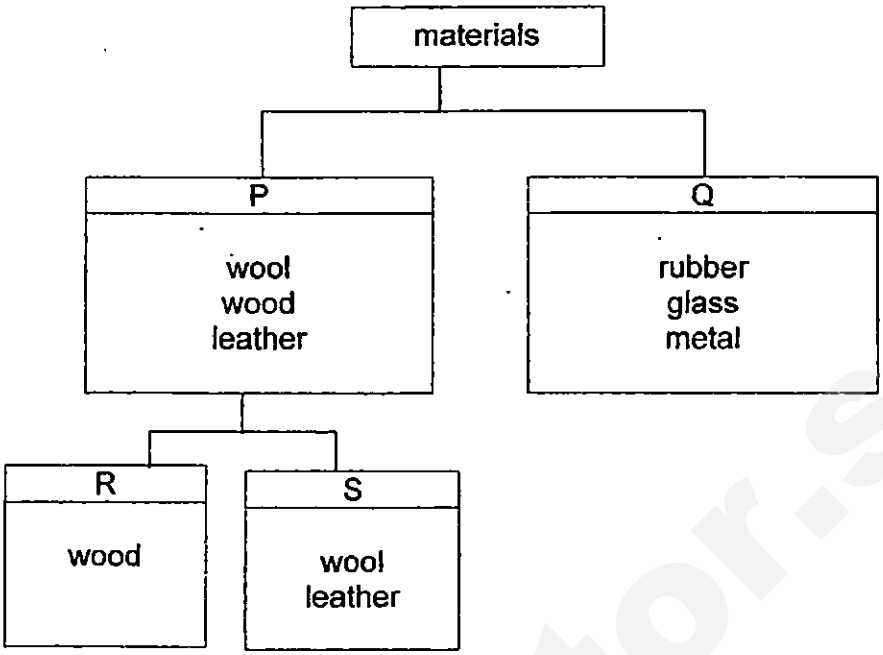
Which one of the statements about the system shown is correct?

(1) It makes food for the body.
(2) It takes in and removes air from the body.
(3) It helps to support the body and gives it shape.
(4) It transports food through the blood to all parts of the body.

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13. Study the chart below.



Which one of the following sets of headings could represent P, Q, R and S?

	P	Q	R	S
(1)	strong	breaks easily	from plants	from animals
(2)	from plants	from animals	strong	breaks easily
(3)	flexible	stiff	waterproof	not waterproof
(4)	not waterproof	waterproof	from plants	from animals

14. Jevita wanted to make a beach ball. The table below shows the properties of the materials given to her.

material	flexible	waterproof	breaks easily
A	No	No	Yes
B	Yes	Yes	No
C	No	Yes	Yes
D	Yes	No	No

Based on the information above, which one of the above materials is the most suitable for making the beach ball?

(1) A
(2) B
(3) C
(4) D

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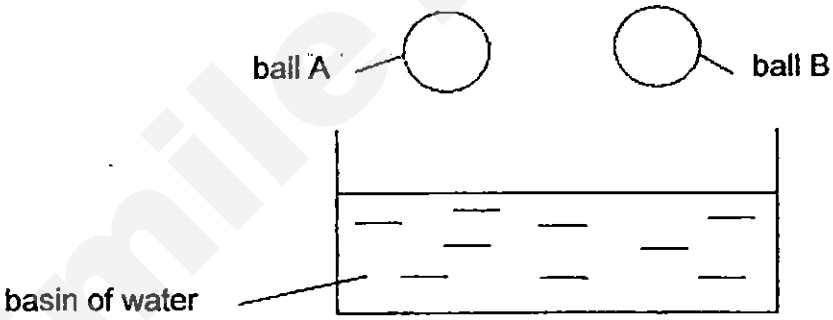
15. Zhi Wei needs to choose a material to build part X of a camping tent. Which of the following properties should he consider when choosing a material?



A flexibility
B waterproof
C transparency
D ability to float on water

(1) A and D only
(2) B and C only
(3) A, B and C only
(4) B, C and D only

16. Jeena had two balls made of different materials. She dropped both balls into a basin of water.



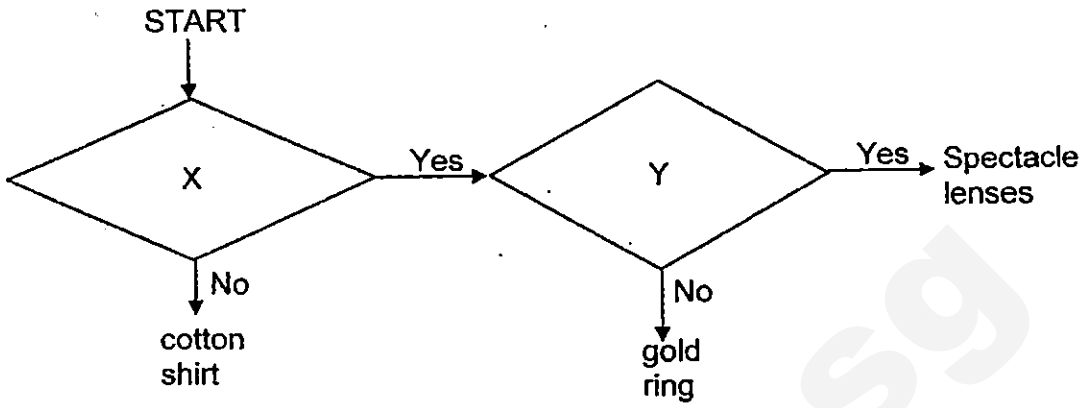
Which of the following properties of the ball could Jeena be testing for?

A strength
B waterproof
C transparency
D ability to float on water

(1) A and C only
(2) A and D only
(3) B and C only
(4) B and D only

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17. Study the flow chart below.



Which one of the following represents the missing questions, X and Y, in the flow chart?

	X	Y
(1)	Does it absorb water?	Is it flexible?
(2)	Is it transparent?	Is it strong?
(3)	Does it absorb water?	Is it transparent?
(4)	Is it waterproof?	Is it transparent?

18. Lauren placed the two poles of a magnet near three different materials, A, B and C, to find out how they interacted. The results are shown below.

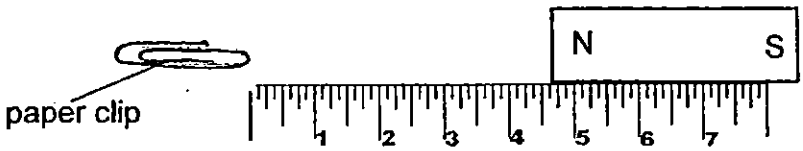
Observation	A	B	C
moved away from magnet	√		
moved towards the magnet	√	√	
remained in the same position			√

Based on the results above, which one of the following statements is correct?

(1) B is made of glass.
(2) C is made of copper.
(3) A is made of aluminium.
(4) A and C are not magnets.

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19. Jessy placed four different magnets, A, B, C and D, near a paper clip placed beside a ruler.



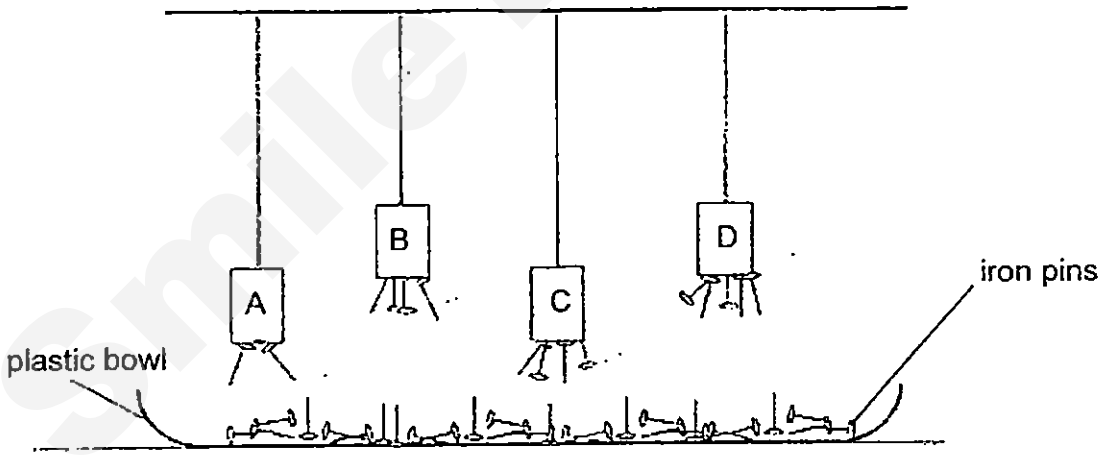
She then measured the distance taken for the different magnets to attract the paper clip.

Magnet	Distance
A	7cm
B	3cm
C	5cm
D	2cm

Based on the data above, which one of the magnets is the strongest?

(1) magnet A
(2) magnet B
(3) magnet C
(4) magnet D

20. Ranveer arranged four magnets, A, B, C and D as shown below.

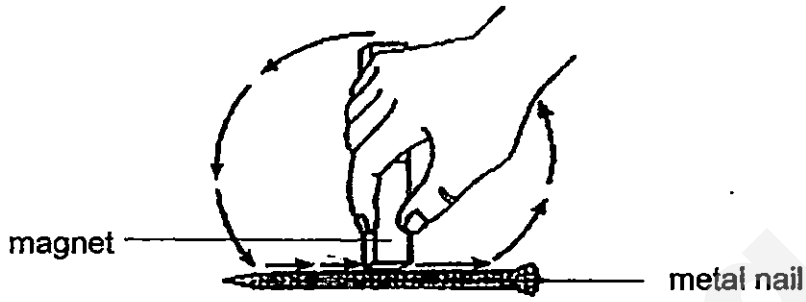


Based on the diagram above, arrange the strength of the magnets from the strongest to weakest.

	Strongest → Weakest			
(1)	A	C	B	D
(2)	D	B	C	A
(3)	C	A	D	B
(4)	B	D	A	C

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21. Qian Hua stroked a metal nail with a magnet for a few minutes.



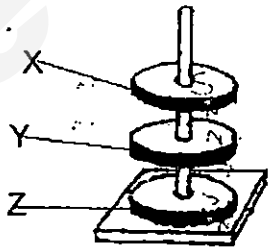
However, after the stroking, the metal nail was not able to attract any steel paper clip.

What is/are the possible reason(s) to explain the results?

A The nail had a few scratches.
B The nail was made of copper.
C Qian Hua was stroking the nail too hard.
D The number of strokes was not enough.

(1) A only
(2) A and C only
(3) B and D only
(4) B, C and D only

22. Three ring magnets, X, Y and Z, were suspended on top of each other as shown below.



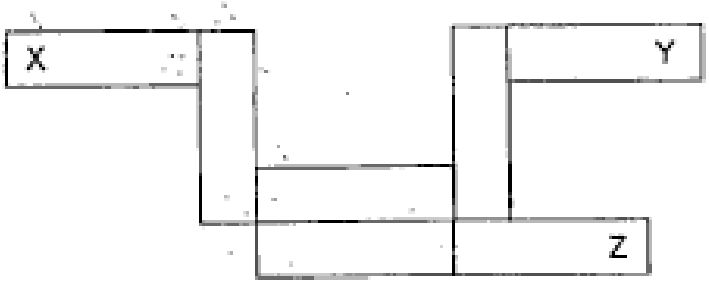
Which two the following actions would allow all the magnets to be attracted to each other?

A Flip X only
B Flip Y only
C Flip X and Y only
D Flip Y and Z only
E Flip X and Z only

(1) A and C only
(2) A and D only
(3) B and D only
(4) B and E only

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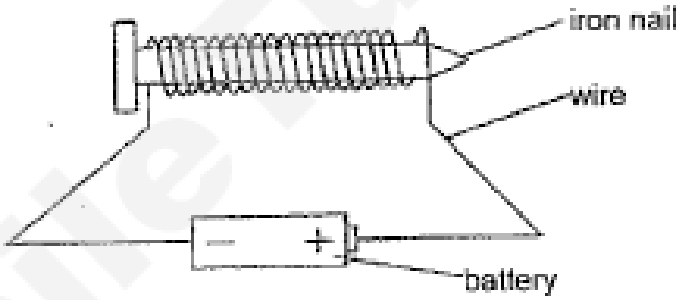
23. Seven magnets have been arranged according to the diagram below.



Based on the diagram above, which one of the following represents the correct poles for magnets X, Y and Z?

	X	Y	Z
(1)	south	north	north
(2)	north	south	south
(3)	south	north	south
(4)	north	north	south

24. Ali set up an experiment as shown below.



He wanted to make the electromagnet stronger. Which of the following actions should he take in order to make the electromagnet stronger?

A Use a longer wire
B Use more batteries
C Use an aluminium nail instead of iron
D Use more turns of wire around the nail

(1) A and B only
(2) B and C only
(3) B and D only
(4) B, C and D only

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NANYANG PRIMARY SCHOOL

PRIMARY 3 SCIENCE

SEMESTRAL ASSESSMENT 2
2015

BOOKLET B

Date : 27 October 2015

Duration : 1 h 20 min

Name : _____ **( )**

Class: Primary 3 ( )

Marks Scored:

Booklet A:		**48**
Booklet B :		**32**
Total :		**80**

Any query on marks awarded should be raised by 6 November 2015. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Parent's signature: .....

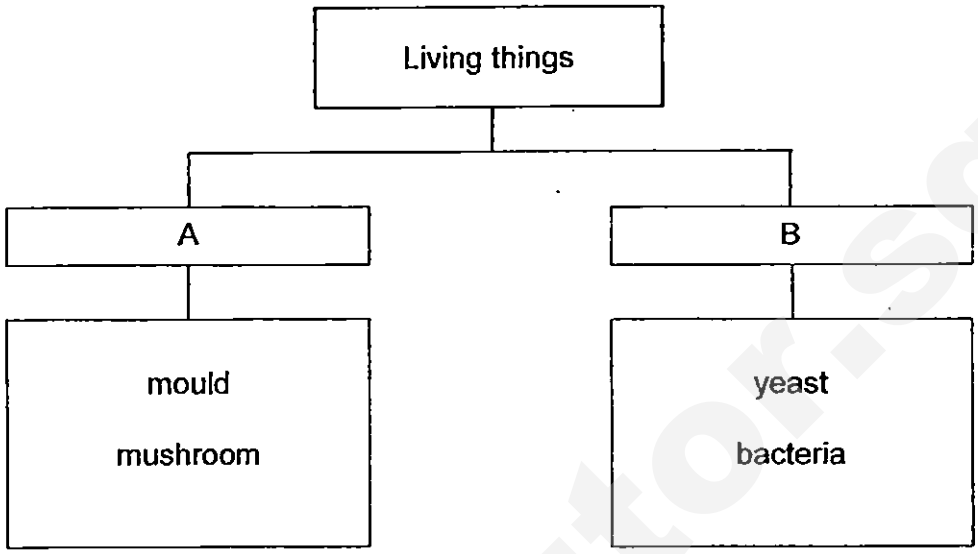
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Section B (32 marks)
Write your answers to questions 25 to 34 in the spaces provided.

25. Study the classification chart below.



(a) What are the possible headings for group A and group B. [1]

A : _____

B : _____

(b) George claimed that bacteria could be harmful or useful. Explain how they could be harmful or useful. [2]

bacteria	Explanation
useful	
harmful	

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26. Limei saw a plant in the school garden and observed that it did not bear flowers and fruits. She concluded that it was a non-flowering plant.

(a) Apart from the observation stated above, what could Limei observe to make the same conclusion. [1]

_____

_____

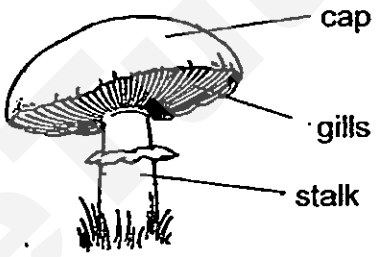
Limei's teacher identified the plant as a flowering plant.

(b) Give a reason why there are no flowers on this flowering plant. [1]

_____

_____

(c) Limei spotted another organism in the garden as shown below.



She concluded that it is not a plant. Using the characteristic of the organism, explain why it is not a plant. [1]

_____

_____

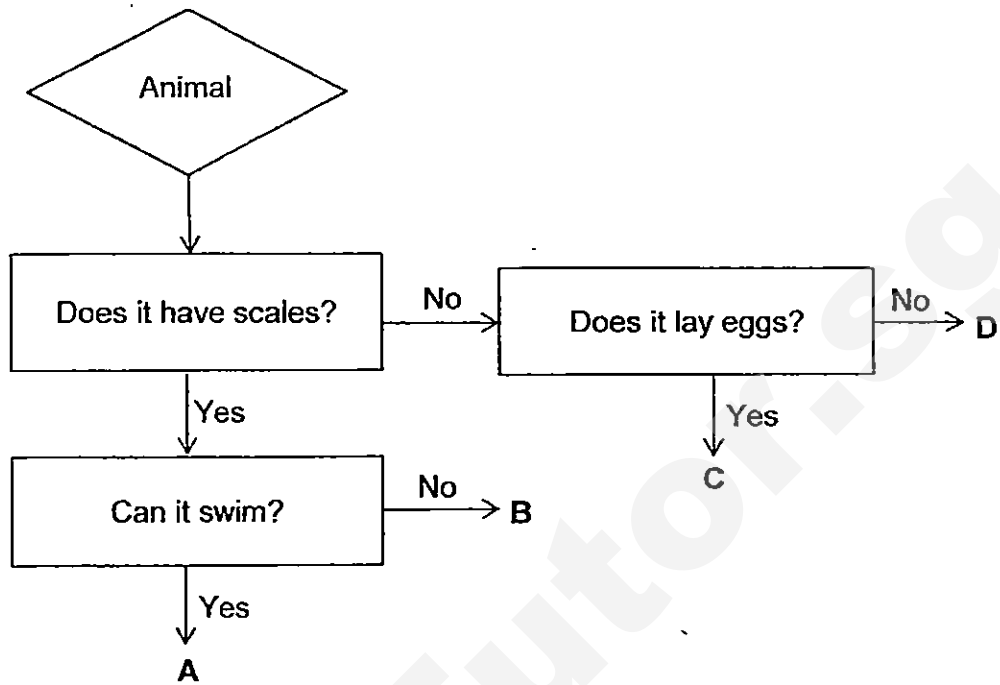
(d) State a similar characteristic between a fungus and a plant. [1]

_____

_____

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27. Study the flowchart below. Answer the questions based only on the information in the flowchart.



(a) State the characteristics of animal A. [1]

_____

_____

(b) State one **difference** between animal B and animal C. [1]

_____

_____

(c) Which **group** of animals does animal D belong to? [1]

_____

(d) Caleb cannot conclude if animal C is an insect or an amphibian. What other observation must he make in order to decide which group of animal it belongs to? [1]

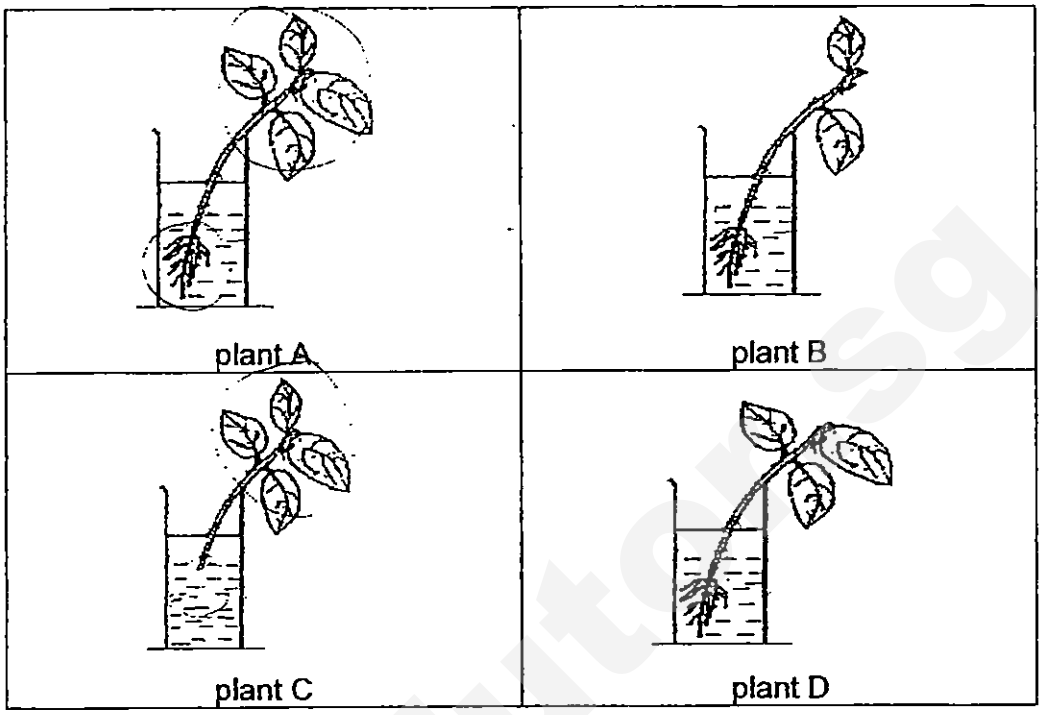
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28. Avi placed four plants of the same height, 6 cm, in water as shown below. All the plants were given enough sunlight and water.



(a) Avi observed that plant A stayed alive longer than plant C.
Explain his observation. [1]

_____

_____

(b) Avi measured the heights of the plants again at the end of 7 days.

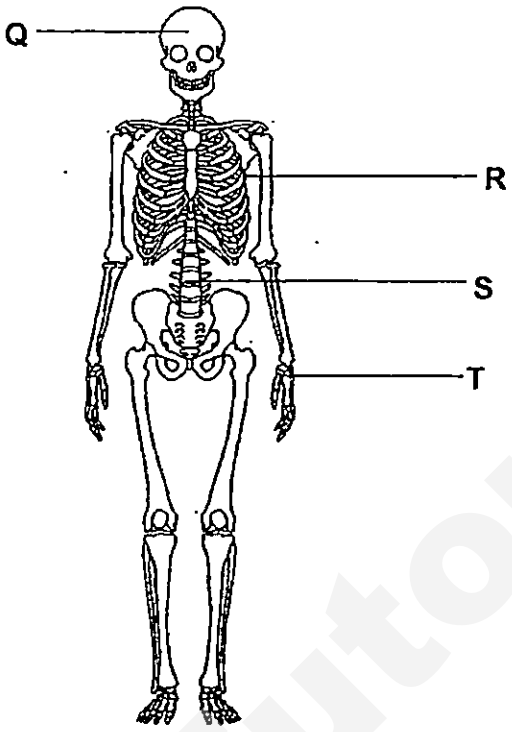
Given that the plants grew under the same conditions, arrange the plants according to their heights. Write down A, B, C and D in the table below.

[2]

Height of the plants			
11cm	9cm	7cm	6cm

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29. Study the diagram below.



(a) Read the statements carefully. Put a tick (√) in the correct boxes. [2]

Function of the parts in the skeletal systems	True	False
i) Q is not part of the skeletal system.		
ii) R protects the lungs only.		
iii) S allows us to stand upright		
iv) T works with muscle to allow us to move.		

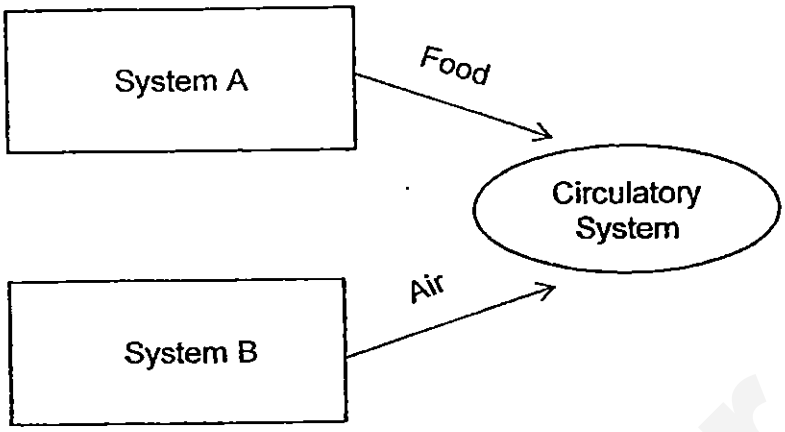
(b) Joe took a deep breath and swam underwater for 10 metres from one end of the pool to the other end. Which **two** main body systems must work together to enable movement in the water? [1]

_____

_____

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(c) Study the diagram about the organ systems of our body below. It shows how three body systems work together to transport food and air to all parts of the body.



Identify systems A and B. [1]

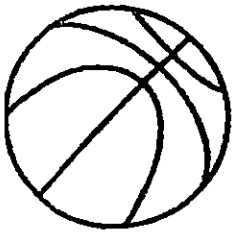
A : _____ system

B : _____ system

0. Class 3J was given two balls during PE lesson.



rubber ball



paper ball

Based on the properties of the two materials, which one of the two balls should the class choose to play basketball with? Explain your choice. [2]

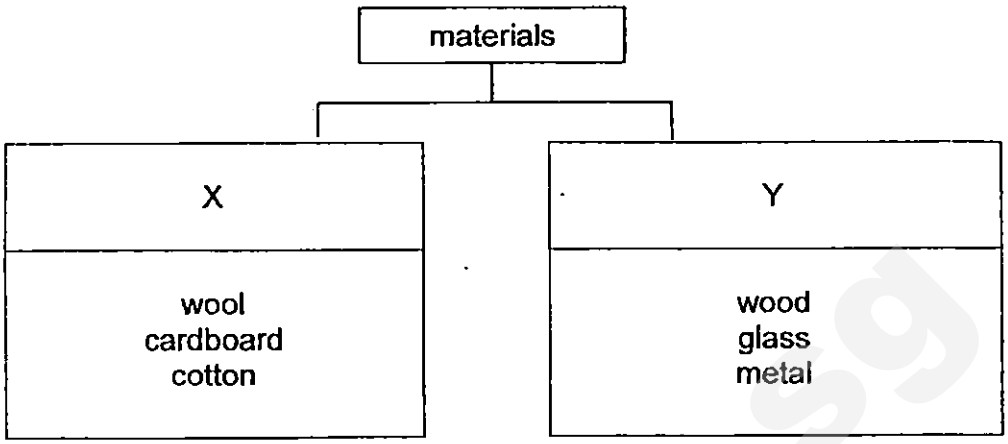
_____

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31. Study the chart below.



(a) Based on the properties of materials above, write down suitable heading for boxes X and Y. [1]

X: _____

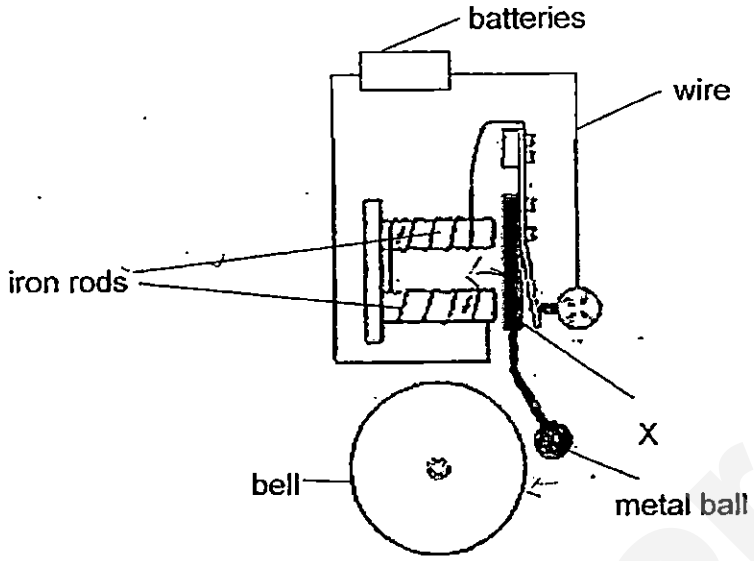
Y: _____

(b) Re-group the materials in **group X only,** in the table below, and give **proper headings**. [2]

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32. The diagram below shows the circuit of a bell, where 2 iron rods act as electromagnets.



In order for the bell to ring, part X must move towards the iron rods until the metal ball hits the bell.

(a) After setting up the electromagnet above, the bell did not ring. Explain the possible reason why the bell did not ring. [1]

_____

_____

After making the necessary changes, the bell works perfectly well.

(b) What will happen to the bell if part X is replaced with a gold plate. Explain your answer. [1]

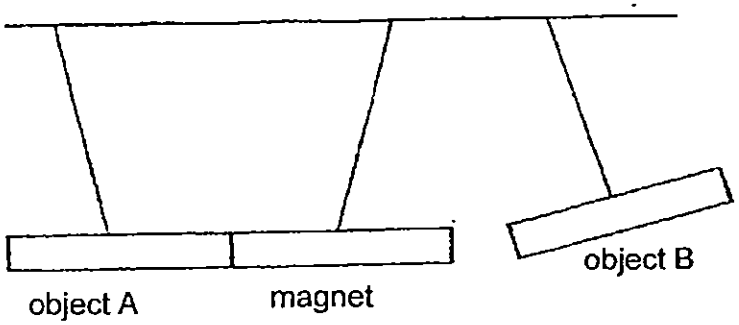
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33. Zhi Xuan conducted an experiment and he drew the results as shown in the diagram below.

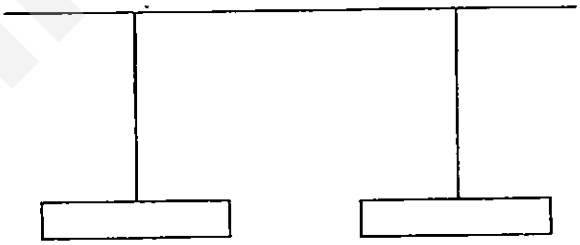


He observed that object A was attracted to the magnet while object B moved away from the magnet.

(a) Zhi Xuan concluded that object A was definitely a magnet. Explain why he was wrong. [1]

(b) Explain why object B moved away from the magnet. [1]

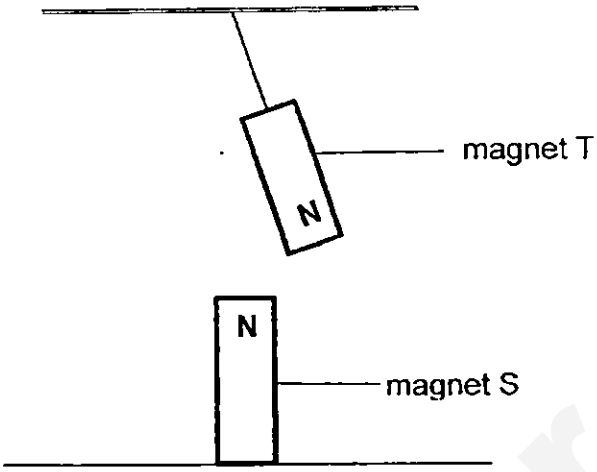
He then hung object C and observed that both objects did not move.



(c) Based on the reaction of object C, what can you conclude about the property of object C? [1]

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34. Santhi hung one magnet, T, directly on top of another magnet, S, which was secured on the table. She observed that magnet T was always pushed away from magnet S as shown below.



(a) Explain why magnet T was not able to rest above magnet S. [1]

Santhi then flipped magnet S around such that its north pole is on the table.

(b) What would Santhi observe about the position of magnet T after the change was made? Explain your answer. [1]

Santhi removed magnet T and heated it for 15 minutes until it was glowing red. She then tried to use magnet T to attract some steel pins but was not able to attract any.

(c) With the help of another magnet, write down the steps she should take in order for magnet T to be able to attract magnetic materials again. [2]

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2015 P3 SA2 Answer Key Analysis

Booklet A

1	**1**	11	**3**	21	**3**
2	**4**	12	**2**	22	**4**
3	**2**	13	**4**	23	**3**
4	**4**	14	**2**	24	**3**
5	**2**	15	**3**	25	
6	**3**	16	**4**	26	
7	**1**	17	**4**	27	
8	**4**	18	**2**	28	
9	**3**	19	**1**	29	
10	**4**	20	**2**	30	

Booklet B – Analysis for Selected Questions

25a.
Concept : Classification of Living Things
Misconception : Yeast is not a fungus.
Answer :
A : can be seen with naked eyes
B : can only be seen with microscope
Focus : Headings are marked as a pair. Same characteristics must be compared for the pair of headings.

25b.
Answer :
Useful : It can be used to make food such as yogurt and cheese.
Harmful :It can cause diseases.
Note : Avoid giving vague answers such as, "Bacteria kills us." Explain further, "Bacteria cause diseases that can be deadly."

26a.
Answer : She has to check if there are any spores on the underside of the leaves.
Note : Pupils has to give **another** observation that Limei has to take apart from what is already mentioned in the question stem, so any answer about flowers and fruits is unacceptable.
To check if plants is reproduced by spores – partial mark is given as we have to help pupils relate that Limei has to check for presence of spores if it is reproduce by spores.

26c.
Concept : Differences between fungi and plants.
Answer : The organism has cap, gills and stalk but plants have leaves, stems and roots so it is not a plant.
OR :The organism gets their food from the organism that they are growing on but plants can make their own food.
Note : Must show comparision.

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26d.
Concept : Similarities between all living things (NGRR) or similarities between plants and fungi in the way they respond to changes in the surroundings.
Answer : Both the plants and the fungi can only **move part of itself.**

27a.
Answer : Animal B has scales and can swim.
Note : The 2 characteristics have to be present before A can be identified, no partial answer.

27b.
Answer : Animal B has scales but animal C does not have scales.
Note : "Animal B has scales but C does not.", answer is not specific for animal C.

27d.
Concept : Differences between insect and amphibians.
Answer : He should observe the outer covering of the animal C. If it has a moist skin, it is an amphibian. If it has a hard outer covering, it is an insect.

28a.
Answer : Plant A has roots which plant C does not have so plant A can absorb water for the plant.
Focus :1. Plant A has roots but plant C roots has been cut off.
2. Function of the roots.

28b.
Note : No partial answer.

30.
Concept : Properties of material. There are 5 properties that pupils have learnt : Strength (will not break easily), Flexibility (can bend easily), Transparency (transparent, translucent, opaque), Buoyancy (float or sink in water), Waterproof (or obsorbent to water).
Focus : Correct explanation given for correct property stated.
Answer : Rubber ball because rubber is stronger so it will not tear easily.
OR : Rubber ball because rubber is flexible so the ball will be able to bounce.

32a.
Concept : Factors affecting strength of electromagnet.
Answer : Battery has not enough energy.
OR There are not enough coils of wire around the iron rods.
Note : As mentioned in the question stem, it is a working bell so pupils cannot mention that part X is not magnetic.

32b.
Concept : Gold is not a magnetic material.
Answer : The bell will not ring as gold is a non-magnetic material so part X will not be attracted to the electromagnet and ring the bell.
Note : Explanation must be correct before any marks can be awarded.

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33a.

Answer : Object A can also be a magnetic material because both magnetic material and magnets can be attracted by a magnet.

OR Object A did not repel the magnet, only magnets with like poles facing each other will repel each other.

Note : Generic answer such as "Magnetic material are attracted by magnets. " will not be accepted. Facts stated must relate to the question.

33b.

Answer : Object B is a magnet so object B and the magnet will repel each other when their like poles are facing each other.

Focus : Object B must first be identified as a magnet before there can be any mention of repulsion of like poles.

Note : Unacceptable generic answer "Unlike poles facing each other will repel."

33c.

Answer : Object C is non-magnetic.

Incomplete answer : Object B is not a magnet.

34a.

Answer : The like poles of the 2 magnets are facing each other so magnet T repel magnet S.

Note : Generic answer such as "Like poles repel each other" without relating answer to question is unacceptable.

34b.

Answer : Magnet T rest directly above magnet S because the unlike poles of magnets are facing each other so they attracted.

Focus : There are 2 parts to the answer :

1. Position of Magnet T (marks will be awarded only if explanation is correct)
2. Explanation

34c.

Answer : **Stroke** magnet T with another magnet, using the **same pole/end** of the magnet, **in the same direction, a few times.**

Note : There are 4 marking points.

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PEI HWA PRESBYTERIAN PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 2

PRIMARY 3
SCIENCE
(BOOKLET A)

29 OCT 2015

Name: _____( )

Class: Responsibility _____

Total time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

1. Write your Name, Class and Register No. in the spaces provided above.
2. DO NOT turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers on the Optical Answer Sheet (OAS) provided.

This booklet consists of 17 printed pages, excluding the cover page.

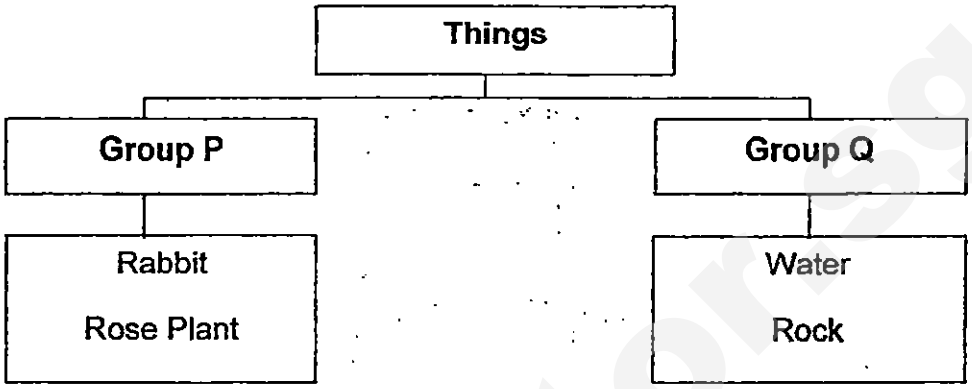
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For each question, from 1 to 24, four options are given. One of them is correct.
Make your choice and shade the oval (1, 2, 3, or 4) on the Optical Answer Sheet.

[48 Marks]

1 Ali collected some things and grouped them in the classification chart shown below.



Which of the following statements do/does not describe the things in Group Q?

A They grow.
B They reproduce.
C They respond to changes.
D They do not need air, food and water to stay alive.

(1) A and D only
(2) B and C only
(3) A, B and C only
(4) B, C and D only

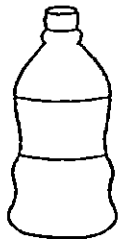
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2 The diagrams below show 3 things.



Dried Leaves



Bottle

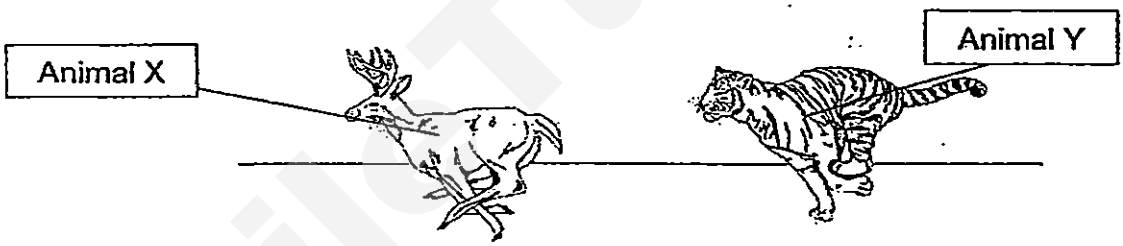


Book

How are the above things similar to one another?

(1) They are living things.
(2) They need water to grow.
(3) They are non-living things.
(4) They survive well in cold and dry places.

3 The picture below shows animal Y running after animal X.



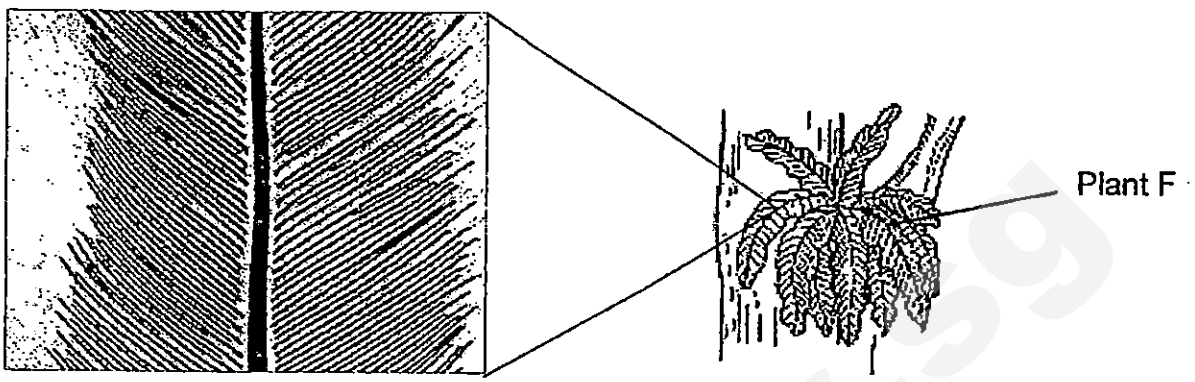
Based on the picture, what is the characteristic of animal X?

(1) It grows.
(2) It reproduces.
(3) It responds to the changes around it.
(4) It needs air, food and water to survive.

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4 Yiyang saw Plant F on a tree. When he observed the leaf of Plant F, he found brown lines on the underside of the leaf as shown below.



Underside of the leaf

Which of the following are correct about the leaf of Plant F?

A Grow from spores
B Grow from seeds
C Makes its own food

(1) A and B only
(2) A and C only
(3) B and C only
(4) A, B and C

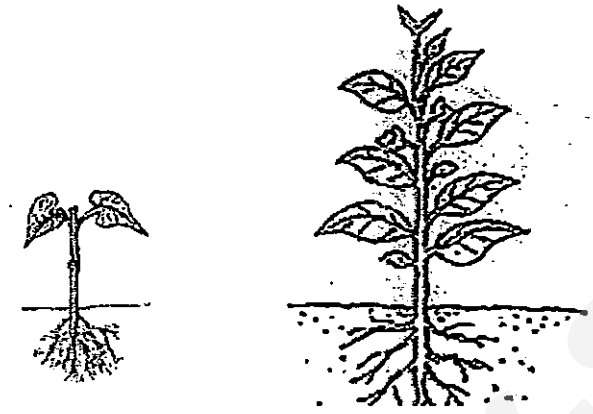
5 Which of the following statements show that plants can move their parts by themselves?

A Mimosa plants close their leaves when they are touched.
B The stem of the green bean plants bend towards the light.
C The coconut fruit drops to the ground when strong wind blows.

(1) A and B only
(2) A and C only
(3) B and C only
(4) A, B and C

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6 The diagram below show a young plant and an adult plant.



Young plant Adult plant

Which of the following shows correct statements of the adult plant and the young plant?

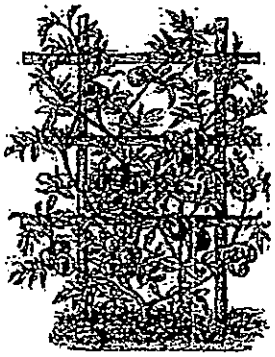
A They have flowers.
B They are able to make food.
C They absorb water through the roots.
D They obtain food from the dead or living organism.

(1) A and B only
(2) B and C only
(3) A and C only
(4) A, B and D only

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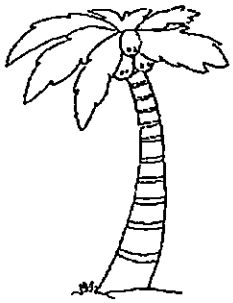
7 The diagrams below show 4 plants that Sally saw.



Tomato plant



Banana plant



Coconut tree



Pong pong tree

She made the following statements about the 4 plants.

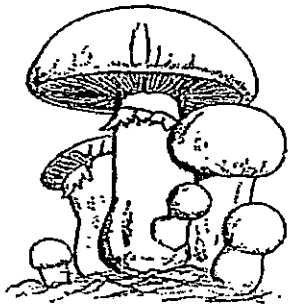
A They have edible fruits.
B They are flowering plants.
C They have strong stem.

Which of the above statements is/are <u>not</u> correct?

(1) A only
(2) B only
(3) A and C only
(4) A, B and C

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8 The diagrams below show 2 living things, W and Y.



W



How are W and Y similar?

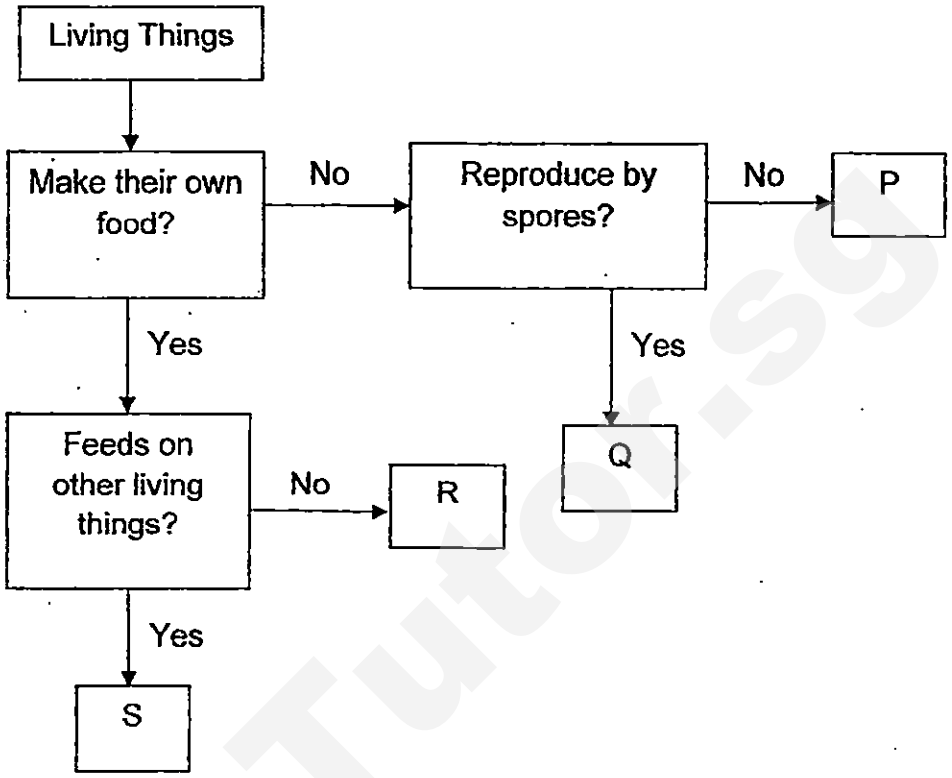
(1) They reproduce by seeds.
(2) They can make their own food.
(3) They feed on other living things.
(4) They can be seen only under a microscope.

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9 The flow chart below shows the characteristics of 4 living things, P, Q, R and S.



Which one of the following living things is Q most likely to be?

(1) Parrot
(2) Rose Plant
(3) Bread Mould
(4) Sunflower Plant

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10 Living things K and L can absorb nutrients from living and non-living things. Living thing K can be seen with naked eye but Living thing L cannot. Which of the following could living things K and L be?

	K	L
(1)	Mushroom	Bacteria
(2)	Bacteria	Mushroom
(3)	Bracket fungus	Fern
(4)	Fern	Bracket fungus

11 The table below shows 4 materials, E, F, G and H and their properties. A tick (√) shows that the material has the property.

Material	Property		
	Can float on water	Waterproof	Flexible
E	√		
F	√		
G	√		√
H			√

Mrs Lee wanted to make a towel.

Which material should she use to make a towel?

(1) Material E
(2) Material F
(3) Material G
(4) Material H

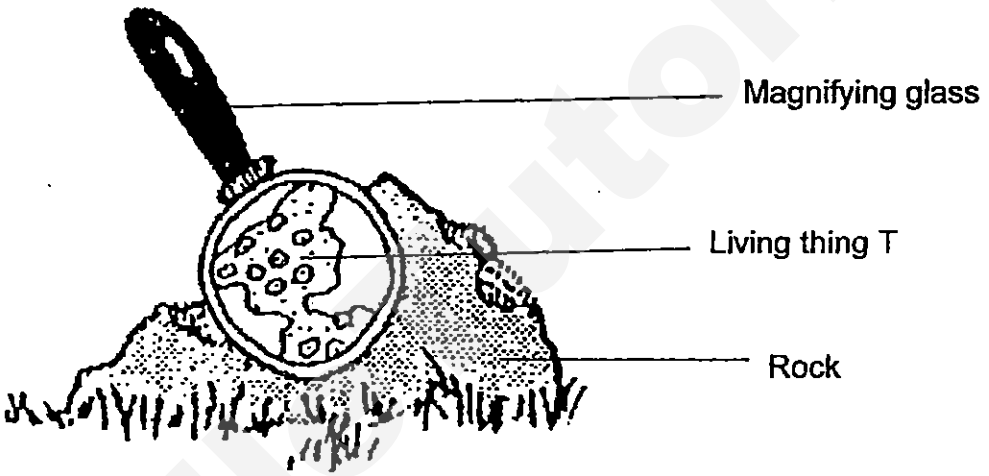
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12 What are the functions of the skeletal system?

A It protects the organs in the body.
B It supports the body and keeps it in shape.
C It allows blood to be carried to all parts of the body.

(1) A and B only
(2) A and C only
(3) B and C only
(4) A, B and C only

13 Ken observed Living thing T growing on the rocks using a magnifying glass.



He did some research and found the following characteristics of Living thing T.

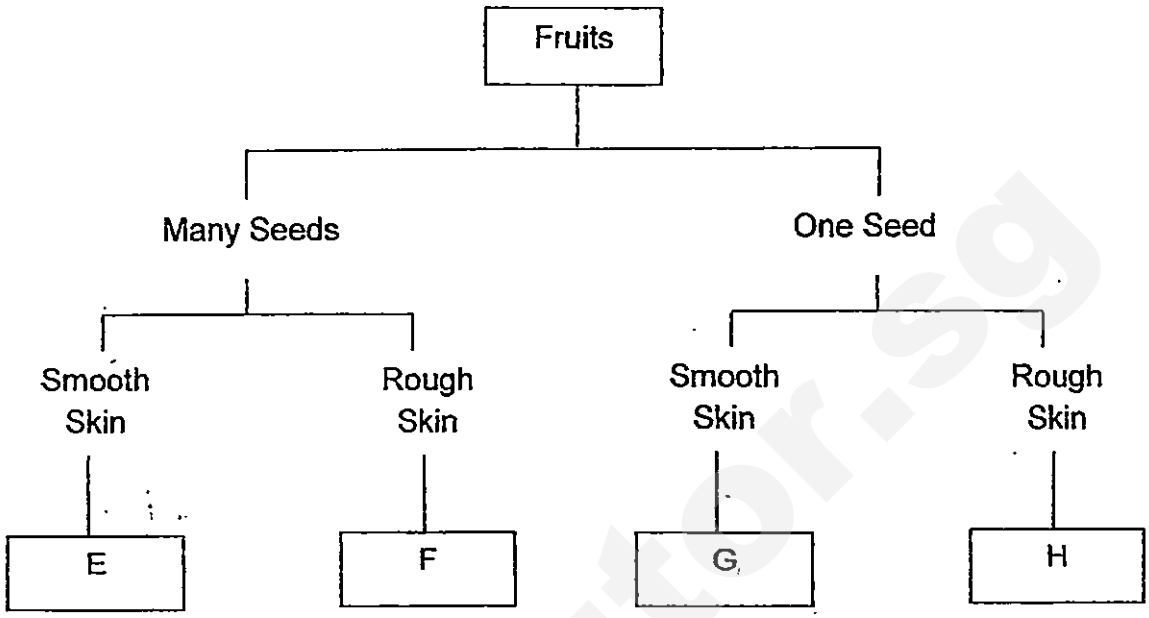
- Does not produce flowers
- Has small leaves
- Reproduces by spores

In which group could Ken classify Living thing T?

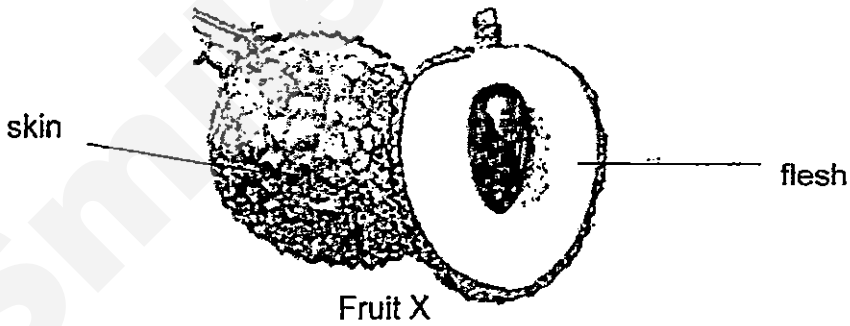
(1) Fungi
(2) Bacteria
(3) Flowering plant
(4) Non-flowering plant

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14 The classification chart below shows how fruits can be grouped into 4 groups, E, F, G and H.



Muthu found a fruit, Fruit X, as shown below.



In which group, E, F, G or H should Muthu place Fruit X?

(1) E
(2) F
(3) G
(4) H

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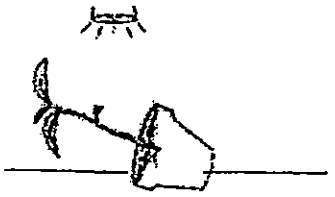
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15 Sophie placed a potted plant directly below a lamp as shown below.



Which of the following diagrams shows how the plant would grow if the pot was knocked on its side and left untouched for a week?

(1)



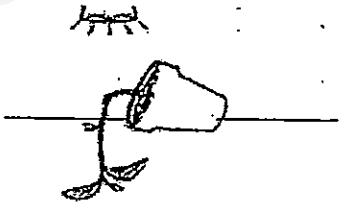
(2)



(3)



(4)



16 Mrs Tan wanted to create a bottle garden. She found some plants and placed them in a container as shown below.

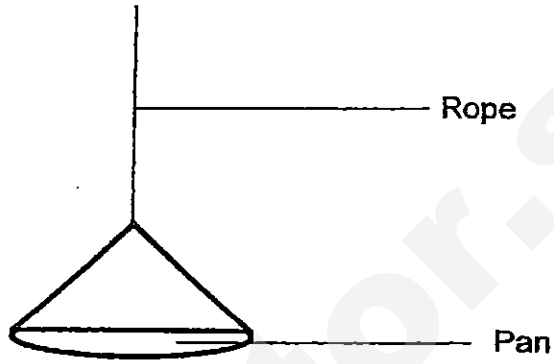


What is one property of material she must consider when choosing the container so that the plants will survive?

(1) flexible
(2) ability to float
(3) not able to break easily
(4) allow light to pass through

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17 Four different materials, M, N, O and P were made into 4 ropes. Susan wanted to test the strength of the ropes. She tied a pan at the end of the rope as shown below.



She placed some iron balls, one at a time, onto the pan until the rope snapped. She recorded the number of iron balls the rope could hold until it snapped in the table below.

Rope	Number of iron balls the rope could hold until it snapped
M	4
N	10
O	6
P	12

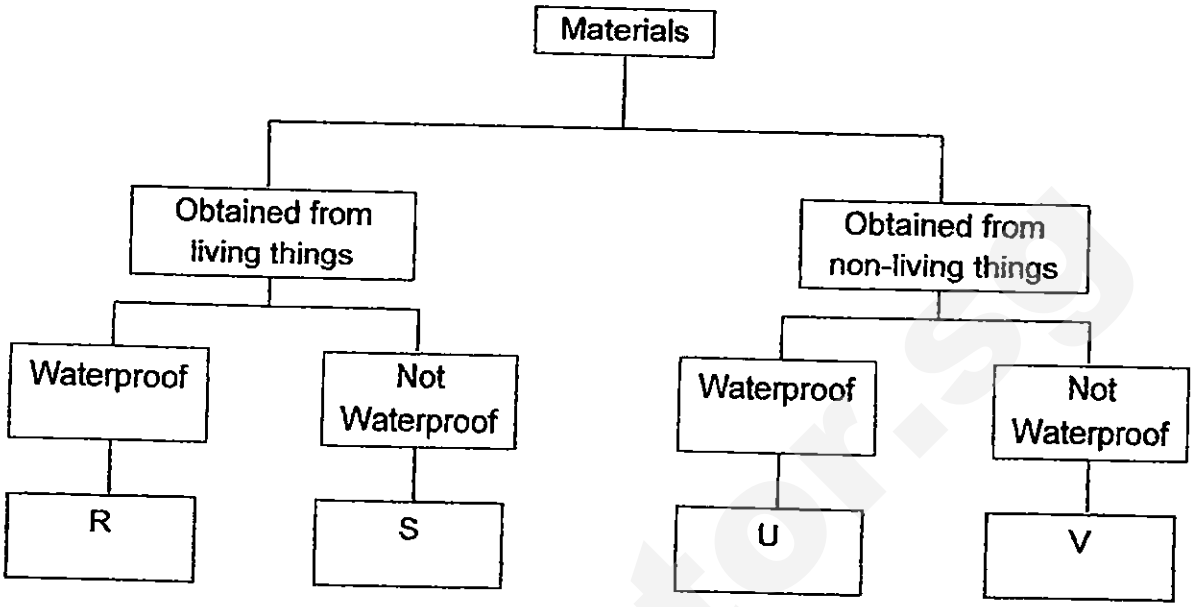
Based on Susan's experiment, which of the following statement is correct?

(1) Rope O is stronger than Rope M.
(2) Rope N is stronger than Rope P.
(3) Rope M is stronger than Rope N.
(4) Rope M is stronger than Rope P.

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18 Study the classification chart carefully.



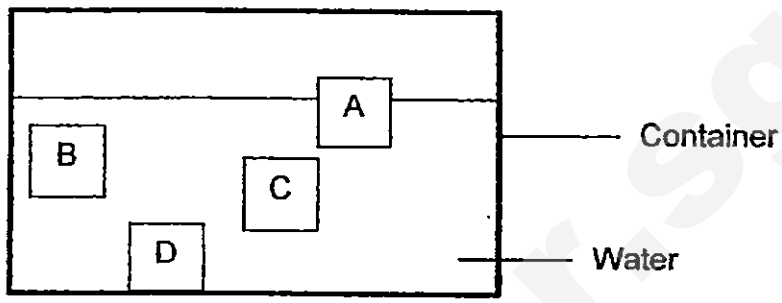
In which group, R, S, U or V does the material used to make an eraser belong to?

(1) R
(2) S
(3) U
(4) V

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19 Tyler conducted an experiment using 4 blocks of different materials, A, B, C and D. He placed the 4 blocks in a container of water and he observed that the 4 blocks were found at different sections as shown below.



He wanted to make a swimming board to help him to float better in water. Which material A, B, C or D should he use to make the swimming board?

(1) A
(2) B
(3) C
(4) D

20 Max ate an apple.
Which part of the digestive system digests his food completely and absorbed the nutrients into his body?

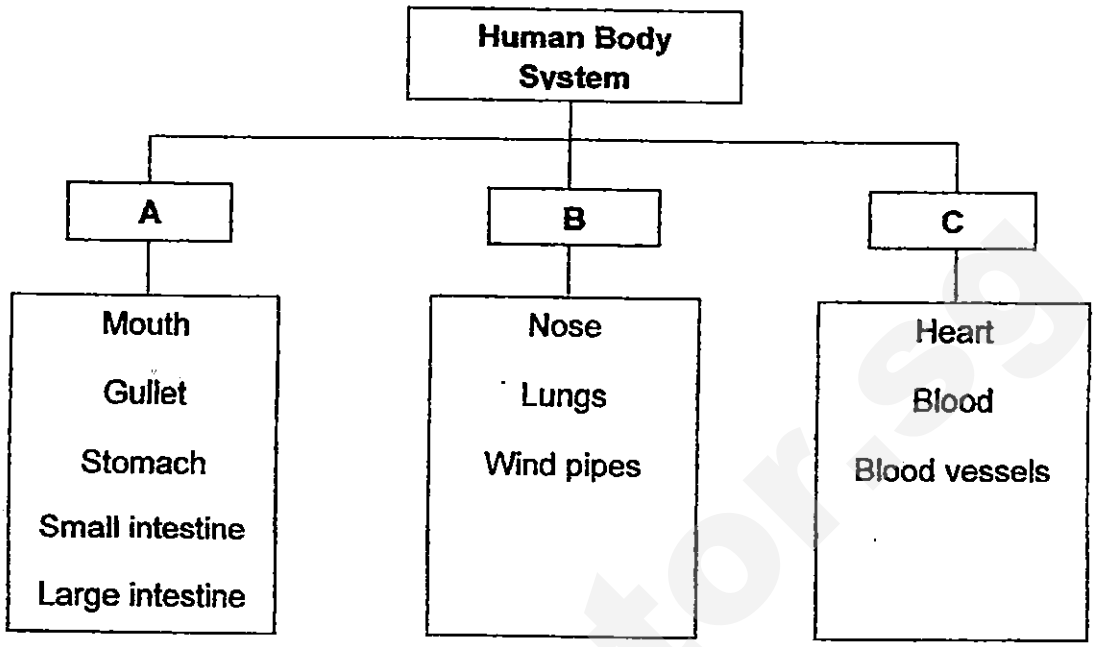
(1) Mouth
(2) Stomach
(3) Large intestine
(4) Small intestine

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21 Study the classification chart of the human body system carefully.



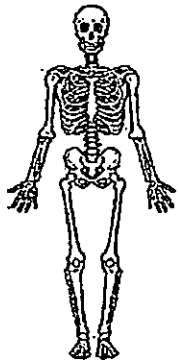
Which of the following subheading is most suitable for the above systems A, B and C?

	A	B	C
(1)	Circulatory	Digestive	Respiratory
(2)	Digestive	Respiratory	Circulatory
(3)	Skeletal	Muscular	Respiratory
(4)	Respiratory	Skeletal	Circulatory

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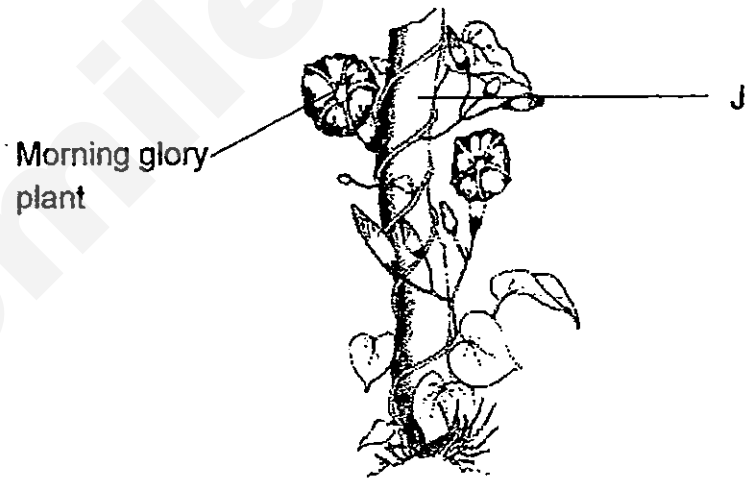
22 The diagram below shows a human skeletal system.



Which of the following systems in the human body works together with the skeletal system to help us write?

(1) Digestive System
(2) Muscular System
(3) Circulatory System
(4) Respiratory System

23 The diagram below shows a morning glory plant growing around J.



What is the function of J?

(1) To make food.
(2) To hold up the plant.
(3) To absorb water for the plant.
(4) To allow the exchange of gases.

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24 When there is a fire, Rachel breathes in thick smoke and experiences difficulty in breathing and she coughs violently.



Which of Rachel's body system is affected directly?

(1) Skeletal System
(2) Muscular System
(3) Circulatory System
(4) Respiratory System

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PEI HWA PRESBYTERIAN PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2

PRIMARY 3
SCIENCE
(BOOKLET B)

29 OCT 2015

Name: _____

Class: Responsibility _____

Total time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

1. Write your Name, Class and Register No. in the spaces provided above.
2. DO NOT turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write all your answers in this booklet.

Marks (Booklet A) :	/48
Marks (Booklet B) :	/32
Total Marks (Booklets A & B) :	/80

This booklet consists of 10 printed pages, excluding the cover page.

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For questions 25 to 33, write your answers in this booklet.
The number of marks available is shown in brackets [ ] at the end of each question or part question. [32 Marks]

25 The table below shows the height of 3 things P, Q and R over 12 months.

Thing	Height of the thing after		
	0 month	3 months	12 months
P	3 cm	3 cm	3 cm
Q	10 cm	5 cm	0 cm
R	0 cm	5 cm	10 cm

(a) Which two things are a human baby and a toy block ? [2]

(i) Human baby:_____

(ii) Toy block:_____

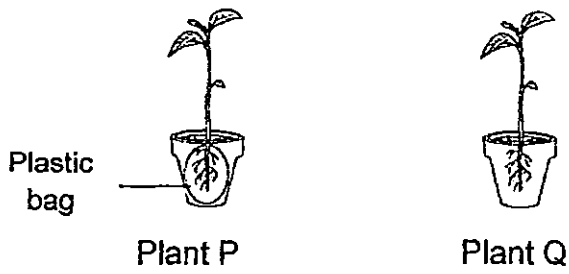
(b) What is one characteristic of the human baby that helped you choose your answer for (a)(i)? [1]

_____

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26 John did an experiment on two similar pots of plants, Plant P and Plant Q. He used a plastic bag to wrap up the roots of Plant P. Then he watered both Plants P and Q with same amount of water every day. He placed the two plants in the garden. After 3 weeks, he observed that Plant Q grew and Plant P died.



Explain clearly why Plant Q grew and Plant P died. [2]

27 Devi had 2 slices of bread of the same size Bread X and Bread Y. She placed Bread X in the fridge and Bread Y on the table near the window. She sprayed some water only on Bread Y. She observed the 2 slices of bread for one week and noticed that only one of the bread had some coloured patches growing on it.

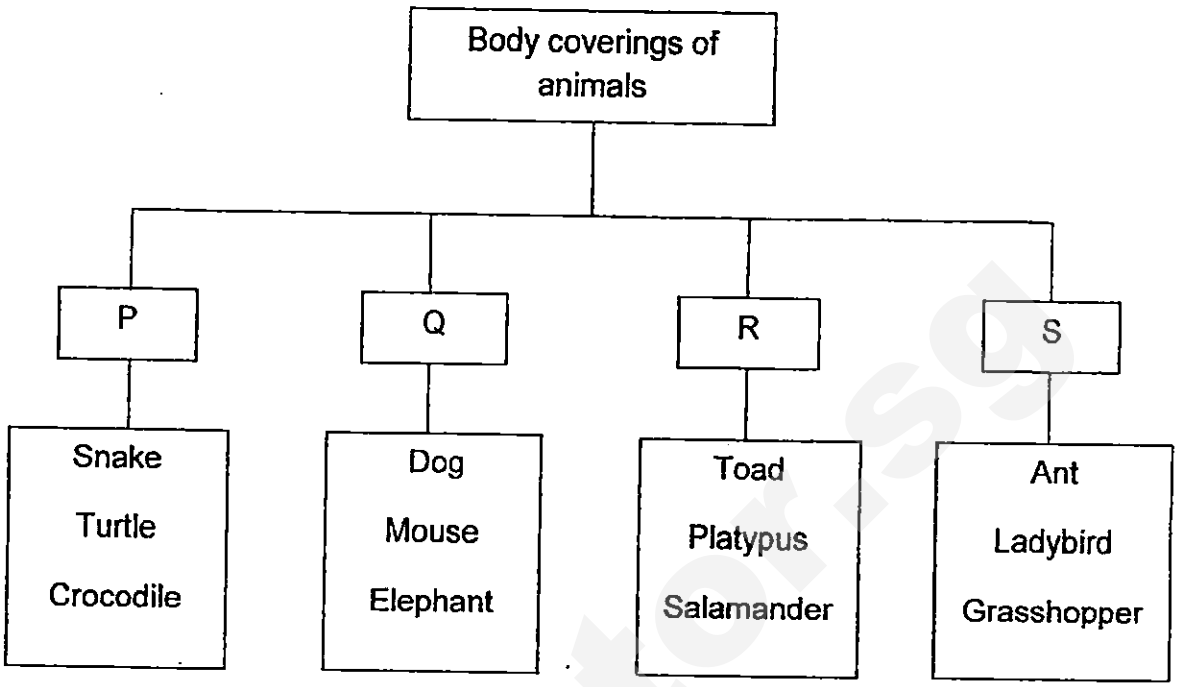
(a) Which bread, Bread X or Bread Y will have the coloured patches growing on it? [1]

(b) Explain your answer in (a). [2]

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28 Study the classification chart of the body covering of animals below carefully.



(a)(i) Identify animal that is classified wrongly in the classification chart above. [1]

_____

(ii) Which group, P, Q, R or S should the animal identified in (a) be classified in? [1]

_____

(b) Explain why lizard is classified as a reptile. [2]

_____

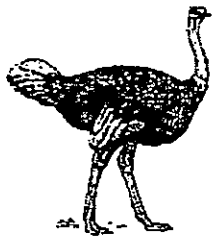
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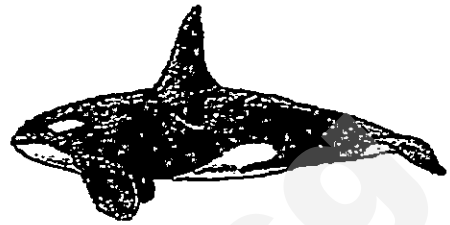
29 The diagrams below show three animals, Animals X, Y and Z.



Animal X



Animal Y



Animal Z

(a) Which of the above animals, X, Y or Z, lay eggs? [1]

_____

(b) State one difference in the physical characteristics between Animal Y and Animal Z. (Do not compare size, shape and colour.) [1]

_____

_____

(c) Susan said that Animal X and Animal Y belonged to the same group of animals because both have wings. Mary said she was wrong. What are the two physical characteristics of animals X and Y that would explain why Mary said so? [2]

_____

_____

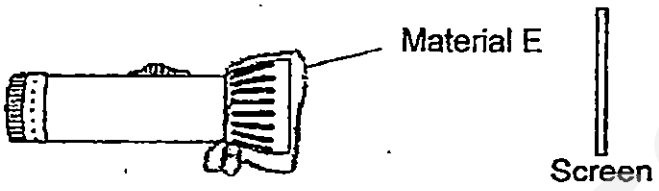
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30 Mei Mei wanted to conduct an experiment to find out which material E, F or G allows most amount of light to pass through. She used a torchlight and wrapped the material on each torchlight as shown below.



She switched on the torchlights and observed the amount of light shining through each of the material and recorded her observations in the table below.

Materials	Observation
E	Bright light patch on the screen
F	Dim light patch on the screen
G	No light patch on the screen

(a) Give a reason why Mei Mei could not see any light for material G. [1]

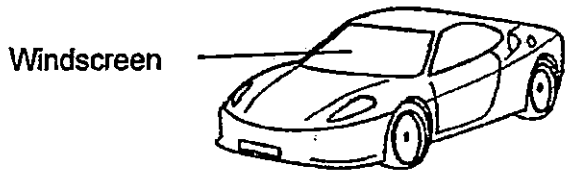
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_____

Question 30 continues on page 23

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(b) Mei Mei wanted to replace the windscreen of her car.



(i) Based on the observation in Mei Mei's experiment, which material, E or G, should not be used to make the windscreen. [1]

_____

(ii) What is another property that Mei Mei should test to find out if the material is suitable as a windscreen? [1]

_____

_____

(iii) Give an example of the material that can be used as a windscreen of a car. [1]

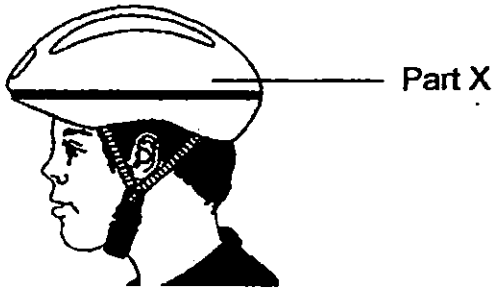
_____

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31 The diagram below shows a cyclist helmet.

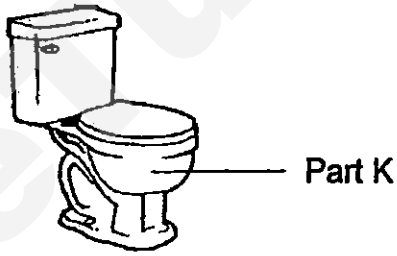


(a) Mr Toh suggested to use plastic instead of glass for part X. [1]
Explain why he said so.

_____

_____

(b) The diagram below shows a toilet bowl found commonly at homes in Singapore.



(i) State the material that is used for to make Part K in most of the toilet bowls. [1]

_____

(ii) What are the 2 properties of this material that makes it suitable to make Part K? [2]

_____

_____

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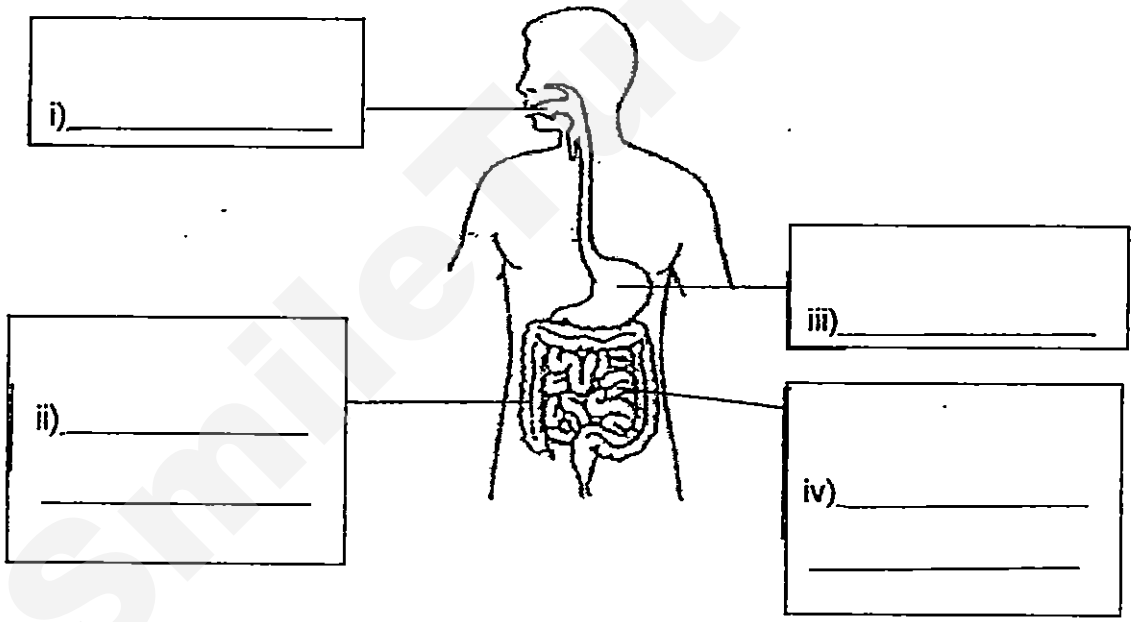
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32 Mary had a plate of chicken rice for dinner.



(a) Describe what will happen to the food in her mouth before it enters the gullet. [2]

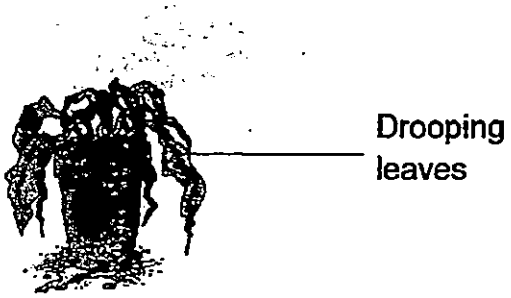
(b) Label the digestive system in the diagram. [2]



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33 Mr Tan bought a potted plant. He left the plant in his house without taking care of it for a few weeks. Then, he observed that the leaves started drooping and turned yellow.

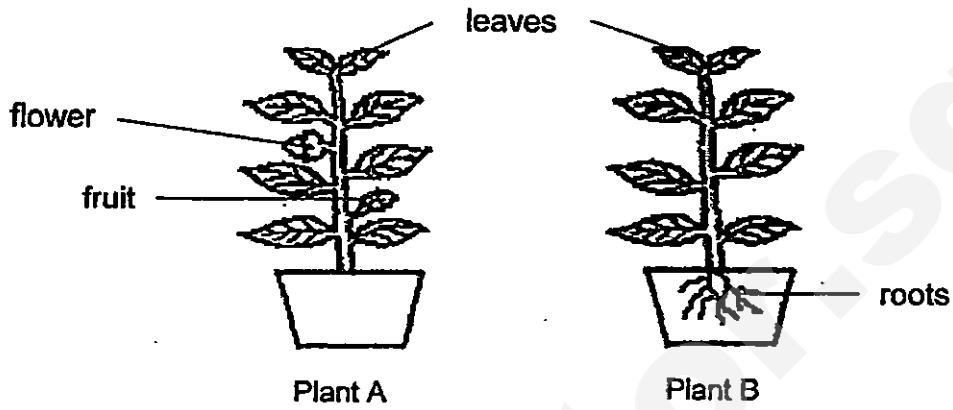


(a) Give a reason why the leaves drooped and turned yellow. [1]

Question 33 continues on page 27

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Mary saw 2 plants of the same kind in her garden. She dug out both plants. She cut off all the roots of plant A. She removed all the fruits and flowers of plant B. She then replanted both plants into 2 pots as shown. She watered them with same amount of water every day.



(b) Plant A died after some time. Explain why Plant A died. [1]

_____

_____

_____

c) Give 2 reasons to explain why Plant B survived. [2]

_____

_____

_____

_____

End of paper

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : PEI HWA PRESBYTERIAN PRIMARY SCHOOL
SUBJECT : SCIENCE
TERM : SA2

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
3	**3**	**3**	**2**	**1**	**2**	**3**	**3**	**3**	**1**
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
4	**1**	**4**	**4**	**2**	**4**	**1**	**1**	**1**	**4**
Q21	Q22	Q23	Q24						
2	**2**	**2**	**4**						

Q25. a) i) R ii) P
b) The human body is a living thing so it will grow like R. The toy block is a non-living thing so it will not grow like P.

Q26. Plant Q has air, sunlight, water and mineral salts from the soil to make food whereas Plant Q had air, sunlight but did not have water and mineral salts as the roots were wrapped in a plastic bag. Plastic bag is waterproof therefore, the roots are unable to absorb water and mineral salts.

Q27. a) Bread Y.
b) Bread Y had more moisture, air and warmth as water was only sprinkled on it whereas Bread X did not have more moisture and warmth.

Q28. a) i) Platypus ii) Q
b) They have dry skin and they lay eggs.

Q29. a) X and Y
b) Animal Y has wings while Animal Z does not have wings.
c) Animal Y wings whereas Animal X does not have wings. Animal Y has feelers while Animal X does not have feelers.

Q30. a) Material G was opaque and is not transparent.
b) i) G ii) The windscreen should be waterproof. iii) Plastic

Q31. a)-Plastic will not break easily while Glass is fragile.
b) i) Ceramic ii) It is strong and waterproof.

Q32. a) The teeth will chew the food into smaller pieces and saliva will soften the food. Digestive juices will be mixed with food.
b) i) mouth ii) large intestine iii) stomach iv) small intestine

Q33. a) It did not have water to make food.
b) Plant A did not have roots to absorb water and mineral salts.
c) Plant B survived because it has roots to take in water and make food.

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RAFFLES GIRLS' PRIMARY SCHOOL

P3 SCIENCE

SEMESTRAL ASSESSMENT (2)

Name: _____ **Index No:** ___ **Class: P3**__

27 October 2015 **SCIENCE** **ATT: 1 h 15 min**

Section A	/48
Section B	/32
Your score out of **80** marks	
Parent's signature	

SECTION A (24 x 2 marks)

For each question from 1 to 24, four options are given.

One of them is the correct answer. Make your choice (1, 2, 3 or 4).

Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS) provided.

1. Which one of the following statement shows that living things grow?

(1) Mrs Tan gave birth to a baby girl.

(2) Peter drinks 8 glasses of water every day.

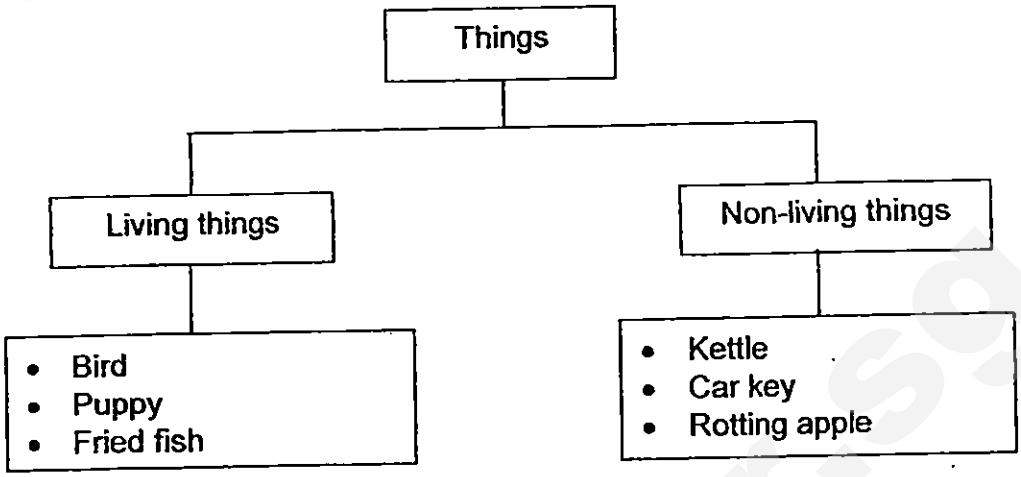
(3) The new television is bigger than the old one.

(4) Ariel needs a new blouse as the old one was too small for her.

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2. Study the classification chart below.



Which object(s) is/ are classified wrongly?

(1) Kettle only

(2) Fried fish only

(3) Kettle and fried fish only

(4) Kettle, fried fish and rotting apple only

3. The table below shows the characteristics of organisms P and Q.
A tick (√) shows the presence of the characteristic.

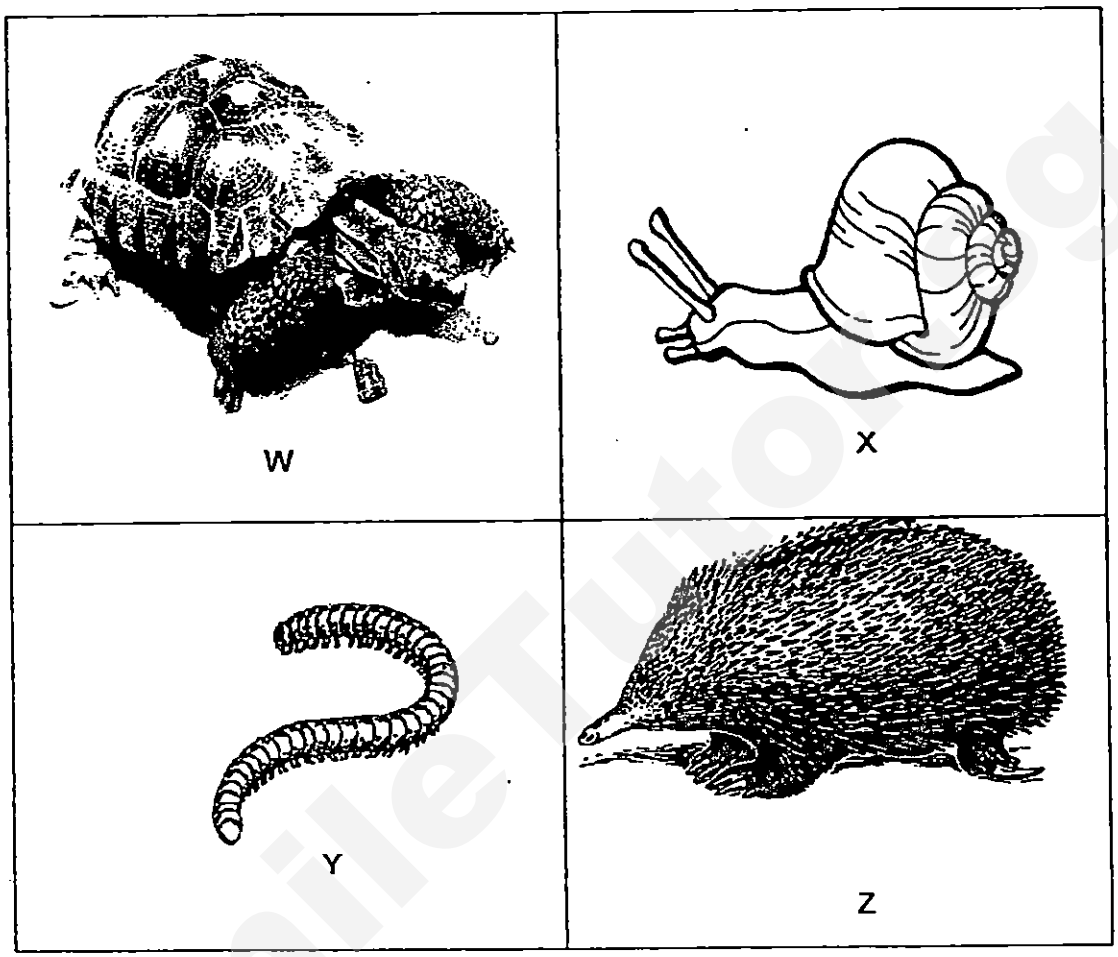
Characteristics	P	Q
Has scaly outer covering	√	
Can live on both land and water	√	
Female produces milk for young		√

Which of the following best represent organism P and Q?

	P	Q
(1)	reptile	amphibian
(2)	reptile	mammal
(3)	amphibian	reptile
(4)	amphibian	mammal

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4. The diagrams below show animals, W, X, Y and Z.



Which of the above animals is a reptile?

(1) W
(2) X
(3) Y
(4) Z

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5. The table below shows the characteristics of animals, A, B, and C.
A tick (√) shows the presence of the characteristic.

Characteristics	A	B	C
Does it have hair?	√		
Does it have feathers?		√	
Does it lay eggs?		√	√
Does it has 3 body parts?			√

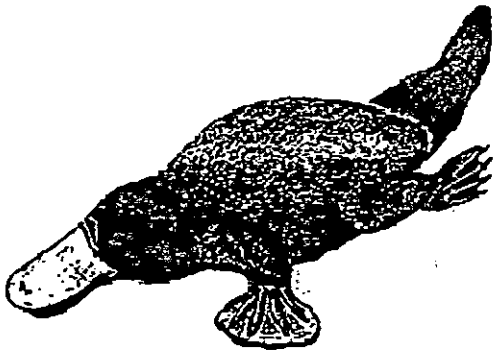
Which of the animals in the table below correctly represent animals A, B and C?

	A	B	C
(1)	reptile	insect	bird
(2)	Insect	mammal	fish
(3)	mammal	bird	insect
(4)	fish	reptile	bird

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6. The diagram below shows some animals.



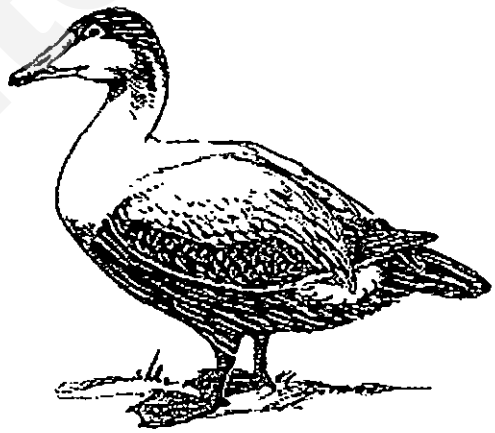
Platypus



Owl



Penguin



Duck

Based on your observation only, what is/are the common characteristic(s) of the animals above?

A They have hair.
B They have wings.
C They have a tail.
D They have feathers.

(1) A only

(2) C only

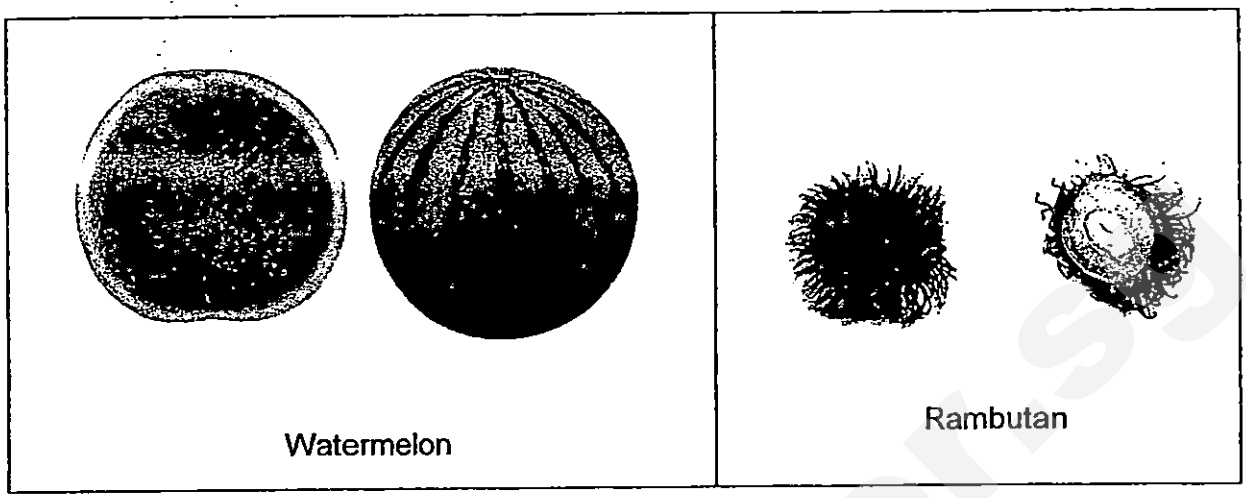
(3) B and C only

(4) C and D only

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7. The diagram below shows 2 fruits.



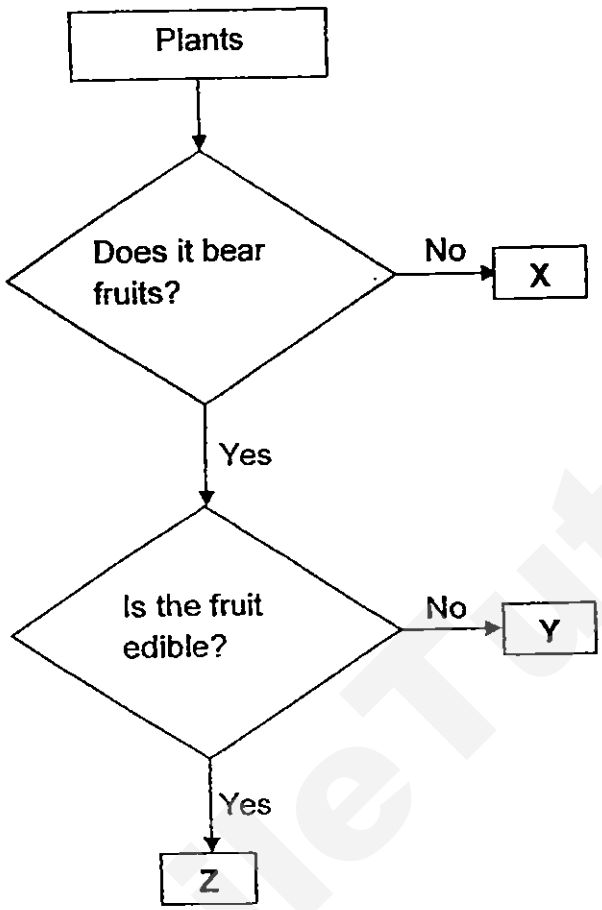
Which of the following statement(s) about the fruits above is/are true?

A Both are round.
B Both have a seed only.
C Both have soft spiny outer covering.

(1) A only
(2) B only
(3) A and B only
(4) A and C only

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8. Study the flow chart below.



Based on the flow chart above, which plant(s) is/ are flowering plant(s)?

(1) Y only

(2) Z only

(3) X and Z only

(4) Y and Z only

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9. Jenny found a piece of mouldy bread.

Which of the following condition(s) is/ are necessary for the growth of bread mould?

A warmth
B moisture
C light
D air

(1) A and D only

(2) B and C only

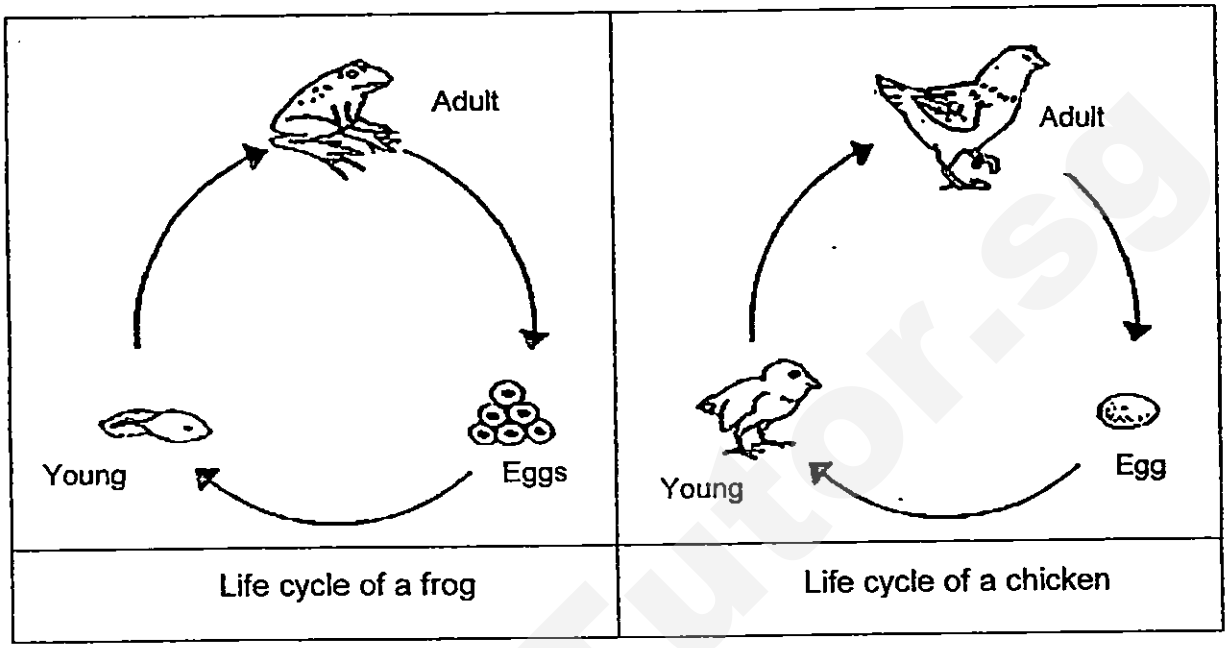
(3) A, B and C only

(4) A, B and D only

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10. The diagram below shows the life cycles of a frog and a chicken.



What are the similarities between the life cycles of a chicken and frog?

A Both lay eggs on land.
B Both youngs look like their adults.
C Both life cycles have the egg stage.
D Both have 3 stages in their life cycle.

(1) A and B only

(2) B and D only

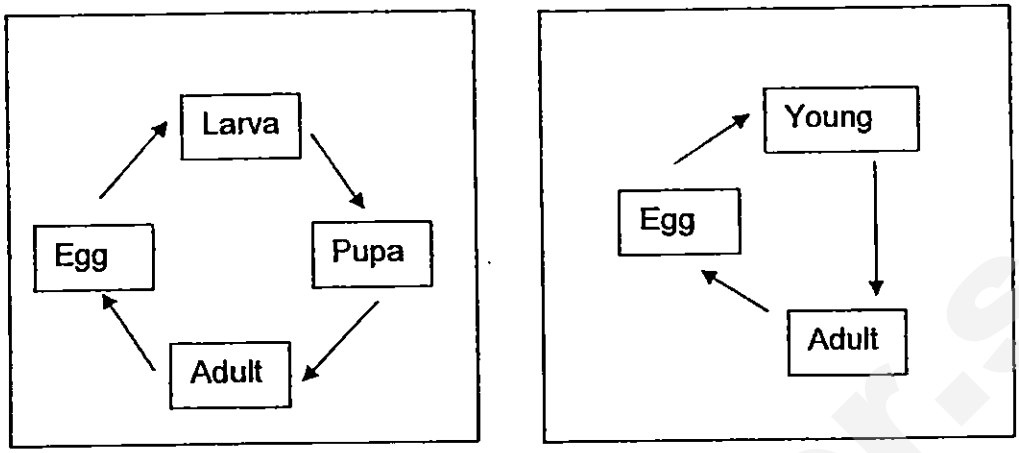
(3) C and D only

(4) A, B and C only

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11. Alex drew the life cycles of 2 animals, A and B, as shown in the diagram below.



Which one of the following identifies animals A and B correctly?

	A	B
(1)	butterfly	mosquito
(2)	cockroach	butterfly
(3)	mosquito	grasshopper
(4)	grasshopper	cockroach

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12. The table below shows characteristics of two animals, P and R.
A tick (√) shows the presence of the characteristic.

Animals / Characteristics	P	R
Lay eggs in water	√	√
Moult several times	√	
Young looks like adult		

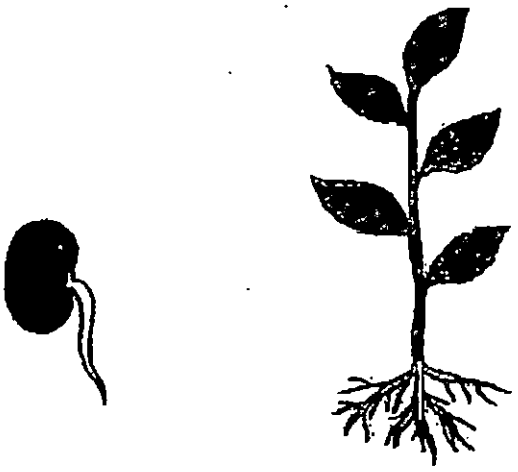
Based on the above information, which of the following best represent animals P and R?

	P	R
(1)	butterfly	mosquito
(2)	mosquito	frog
(3)	frog	cockroach
(4)	frog	mosquito

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13. The diagrams below show two different stages, X and Y, of a plant.



X Y

Based on the information above, which one of the following statements is correct?

(1) Both stages X and Y have root.
(2) Both stages X and Y have stem.
(3) Both stages X and Y have leaves to make food.
(4) Both stages X and Y only need water to survive.

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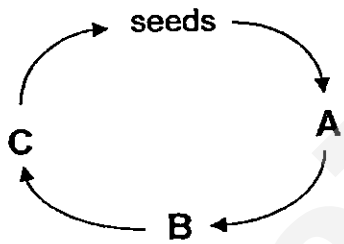
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14. Siti recorded her observations at the different stages of development of a flowering plant within a month as shown in the table below.

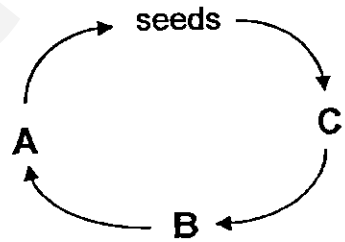
	Stage A	Stage B	Stage C
Leaves seen	Yes	Yes	Yes
Flowers seen	Yes	Yes	No
Fruits seen	Yes	No	No

Based on the information above, which of the following has the correct arrangement of the stages of development of the flowering plant?

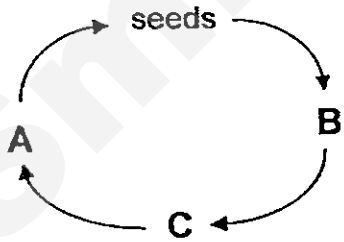
(1)



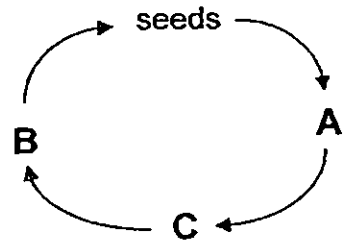
(2)



(3)



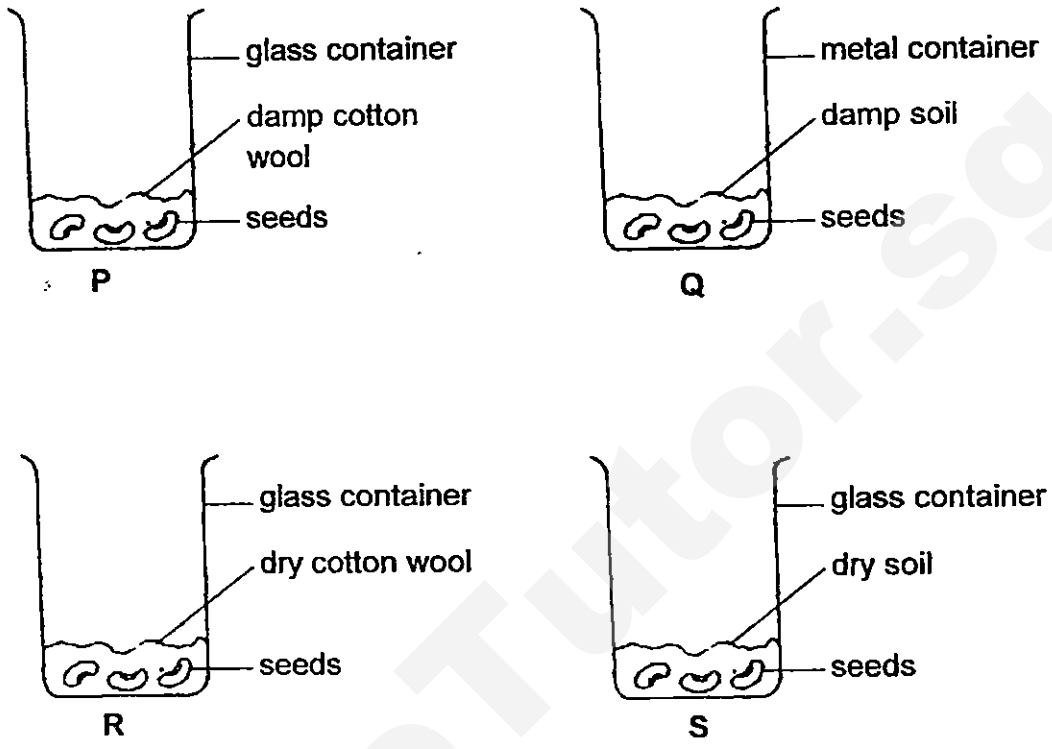
(4)



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15. The diagrams below show four different set-ups, P, Q, R and S.



Song Meng wanted to find out whether seeds need water to germinate.

Which two set-ups should Song Meng use for his experiment?

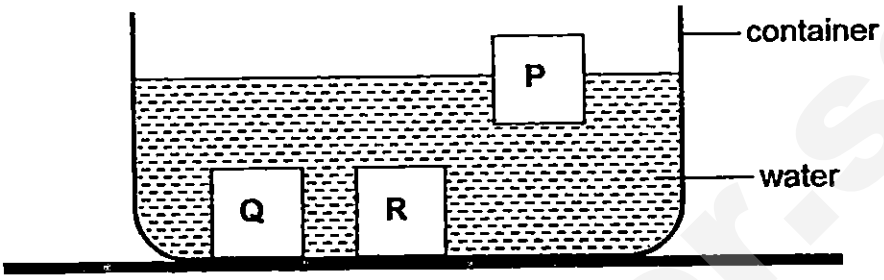
(1) P and R
(2) P and S
(3) Q and R
(4) Q and S

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16. Siew Li conducted a test on 3 cubes, P, Q and R, to find out a property of the material as shown in the diagram below.

Cubes P, Q and R are made of different materials but have similar shapes and sizes.



Which property of the material was Siew Li testing?

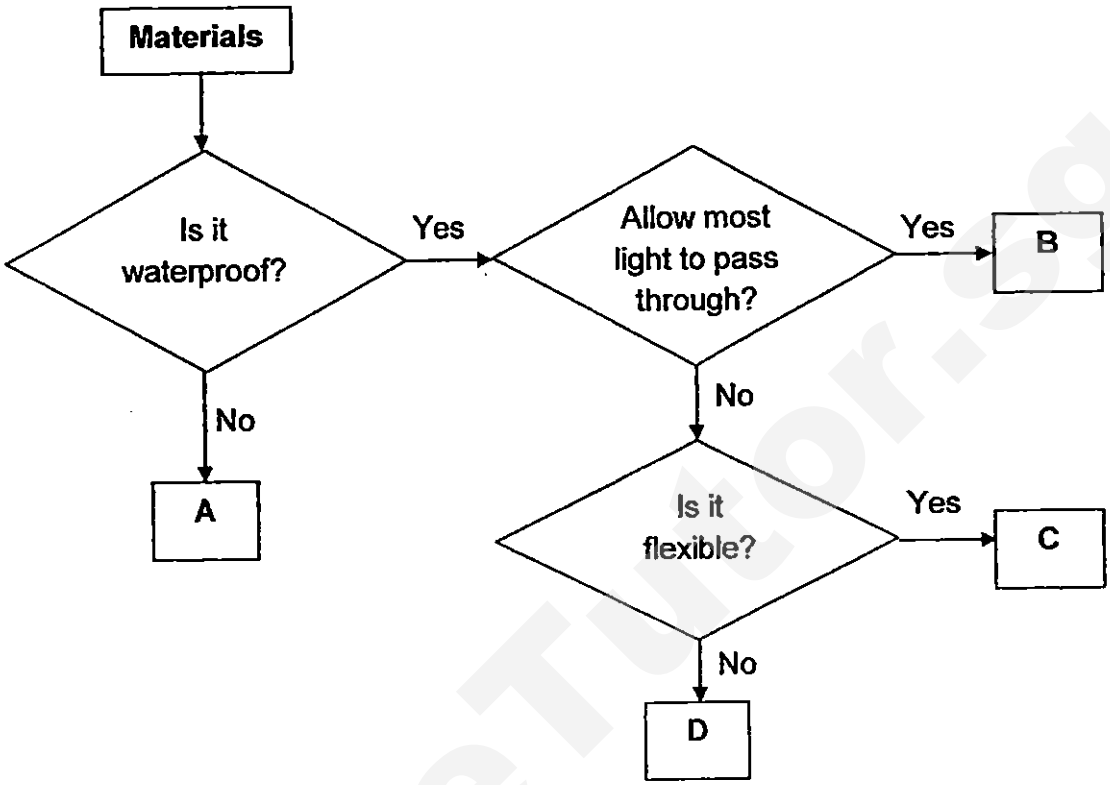
(1) Strength
(2) Flexibility
(3) Degree of transparency
(4) Ability to float or sink in water

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four

17. The flow chart below shows the classification of ~~three~~ materials, A, B, ~~and~~ C. and D



The diagram below shows a pair of swimming goggles with two labelled parts, T and S.



Based on the information provided above, which of the following materials are most suitable to use to make into part T and S of the goggles respectively?

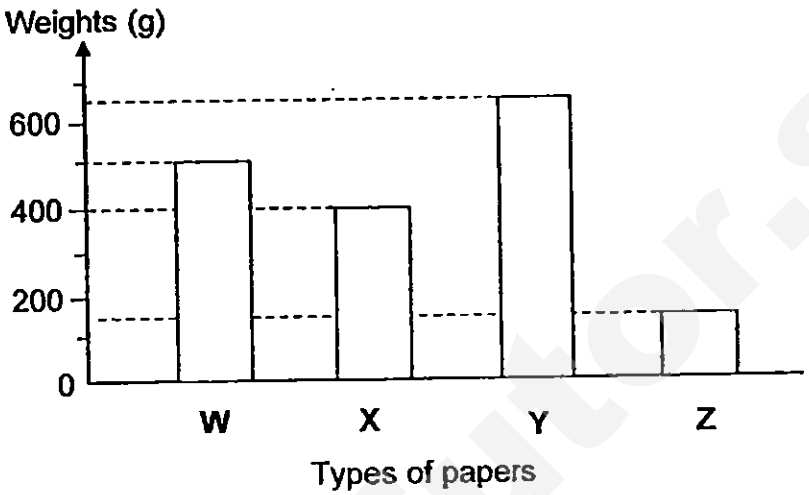
	T	S
(1)	A	C
(2)	A	D
(3)	C	B
(4)	B	D

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18. The graph below showed the amount of weights 4 types of papers, W, X, Y and Z, could hold respectively before it started to tear.

The papers were of similar size and thickness.



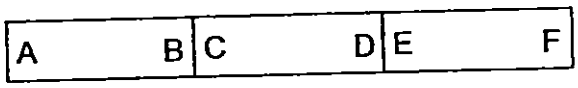
Mr Tan needed to make a paper bag that can hold a mass of at least 300g.

Which type of paper(s) should he use to make the paper bag?

(1) Y only
(2) Z only
(3) W and Y only
(4) W, X and Y only

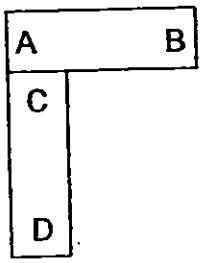
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19. Jiemin set up three magnets, AB, CD and EF as shown in the arrangement below.

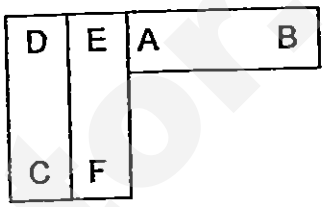


Which one of the following arrangement is possible?

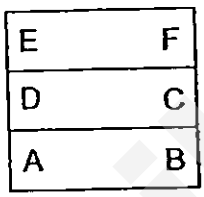
(1)



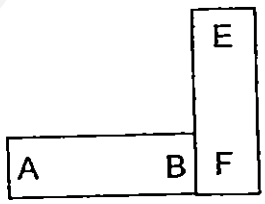
(2)



(3)



(4)

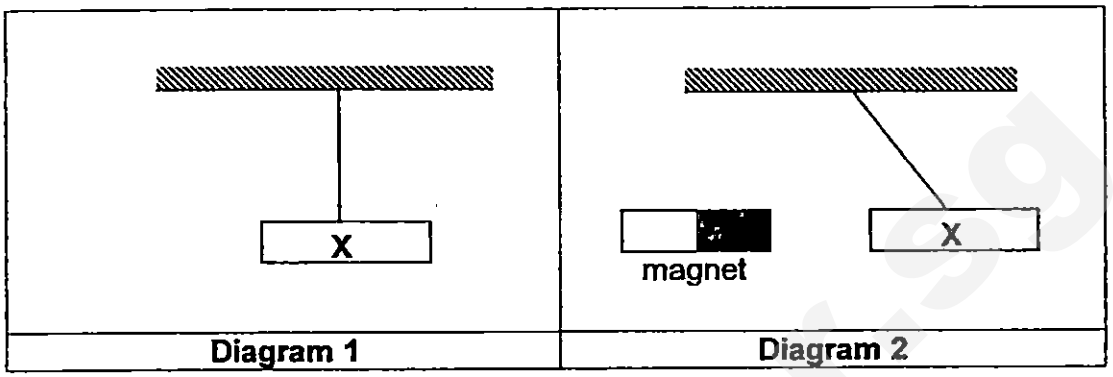


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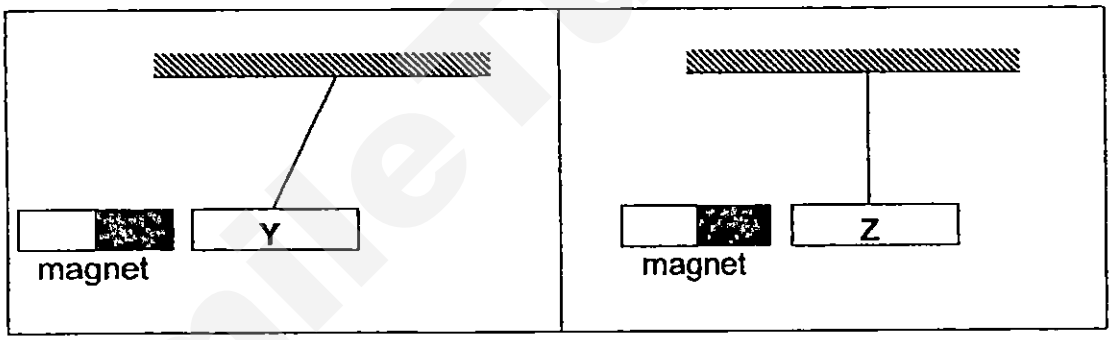
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20. A bar X was hung from a string as shown in diagram 1.
Fatimah moved a magnet near to the bar X and recorded her observation in diagram 2.



She repeated the same process on bar Y and Z, and recorded her observations in the diagrams below.



Based on the information provided above, which statement is definitely correct?

(1) All bars are magnetic objects.

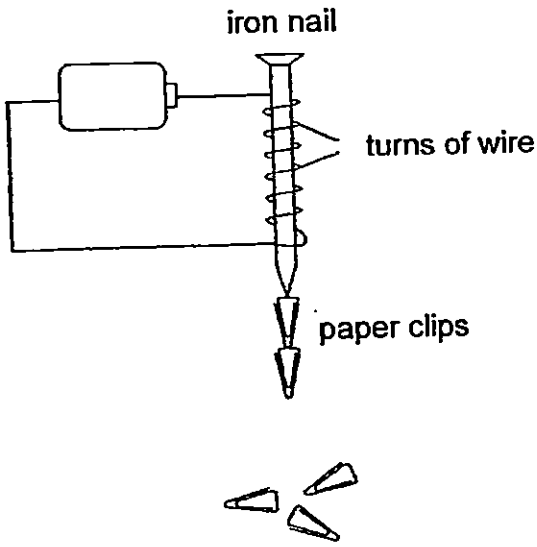
(2) Both bars X and Y are magnets.

(3) Only bar Z is a non-magnetic object

(4) Only bar X is a magnet and the rest are magnetic objects.

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21. Study the set-up below.



Which of the following changes made to the set-up will allow the magnetised nail attract more paper clips?

A Increase the number of battery.
B Replace the iron nail with a longer iron nail.
C Increase the number of turns of wire around the iron nail.
D Decrease the number of turns of wire around the iron nail.

(1) A and C only

(2) A and D only

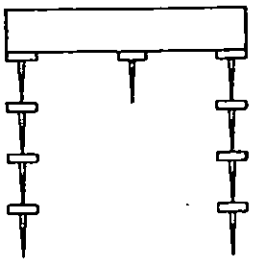
(3) B and C only

(4) B and D only

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22. Roy placed similar iron nails one by one at different parts of the bar magnet. The diagram below showed his result.



What conclusion could Roy make from the above observation?

(1) The bar magnet is made of iron.

(2) The bar magnet has two different poles.

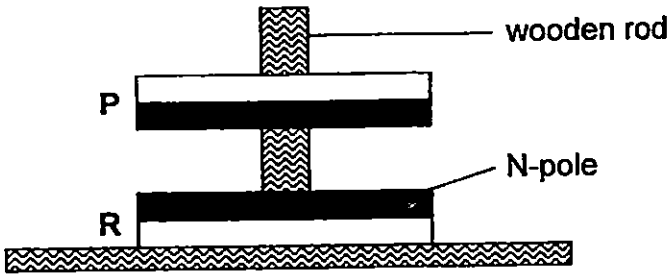
(3) The iron nails at the side are lighter than the iron nails in the middle.

(4) The bar magnet has stronger magnetic strength at the two poles than its centre.

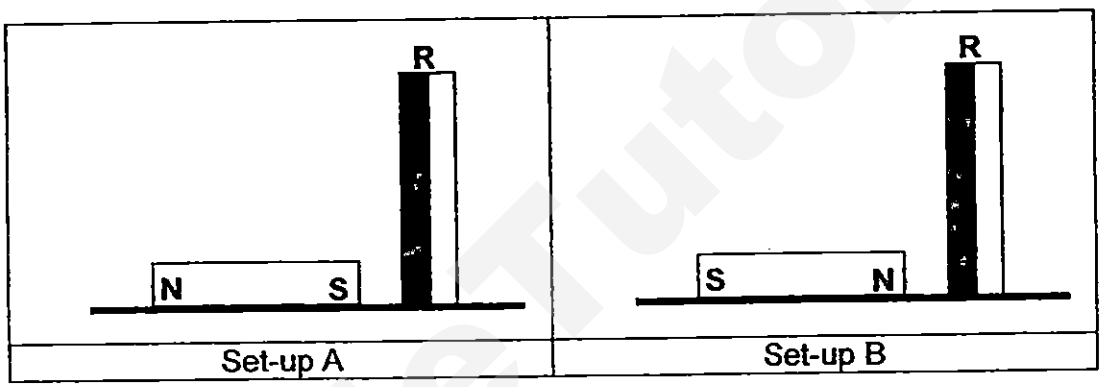
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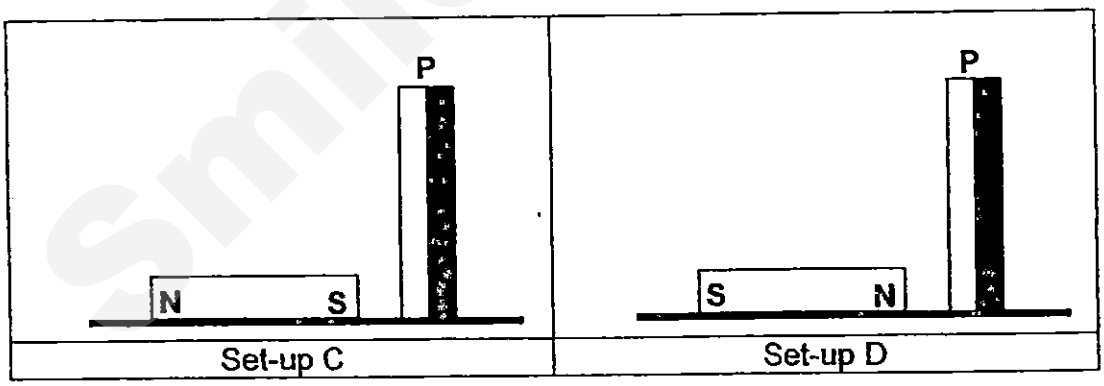
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23. Siti placed ring magnet P and R through a wooden rod and made the observation as shown in the diagram below.



Based on the information provided above, which of the following set-ups will Siti observe the bar magnet being pushed away by the ring magnet?





(1) B only
(2) A and D only
(3) B and C only
(4) A, B, C and D

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24. Two different objects were placed in four containers, W, X, Y and Z as shown in the table below.

Container	Objects placed in the container
W	iron rods and steel balls
X	iron rods and silver coins
Y	steel balls and aluminium rods
Z	silver coins and aluminium rods

Which container(s) will the two objects be separated using a bar magnet?

(1) Y only

(2) W and Z only

(3) X and Y only

(4) W, X and Z only

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Name: _____ ( )

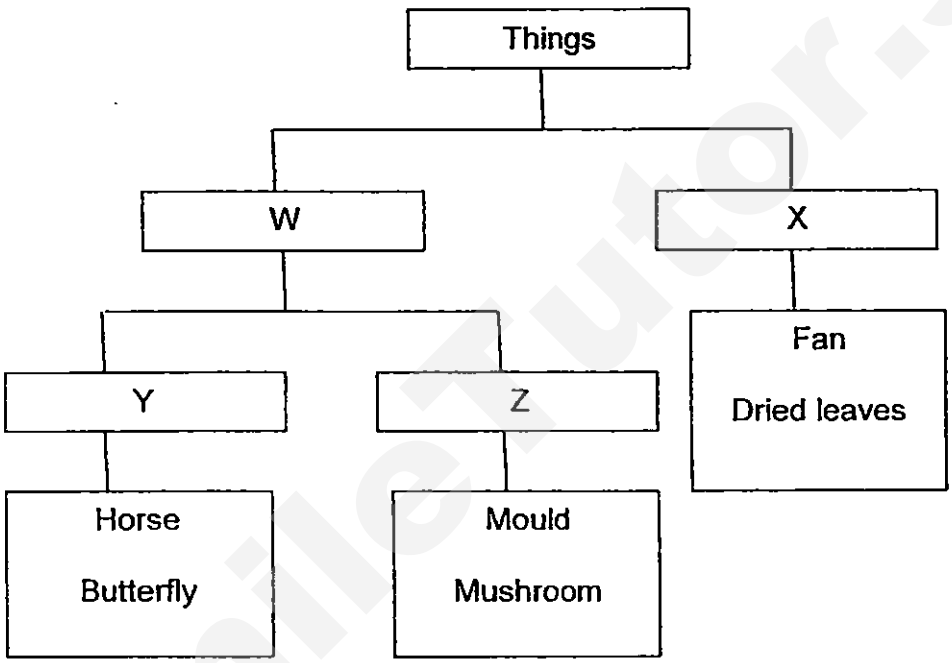
Class: P 3 ( )

32

SECTION B (32 marks)

For questions 25 to 39, write your answers clearly in the spaces provided.
The number of marks available is shown in brackets [ ] at the end of each question or part question.

25. Karen classified some things as shown in the classification chart below.



In the diagram above, write a suitable sub-heading each for W, X, Y and Z. [2]

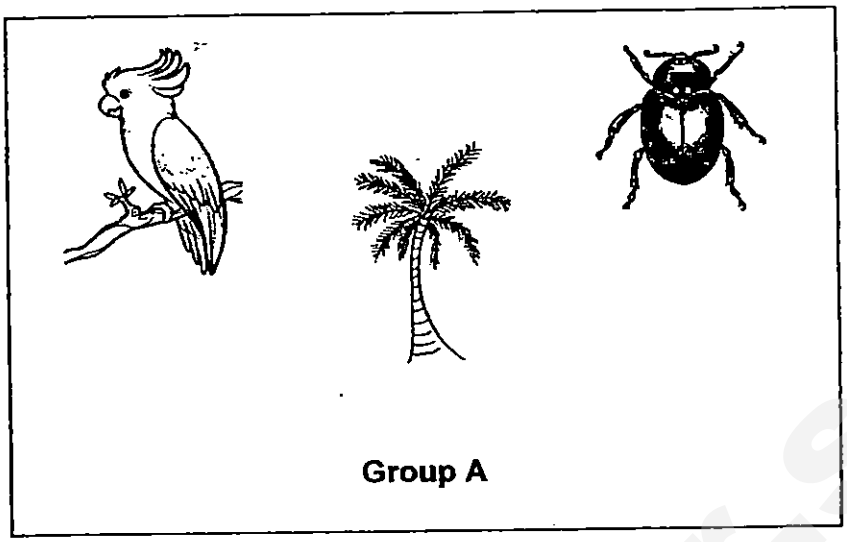
W	
X	
Y	
Z	

Score 2

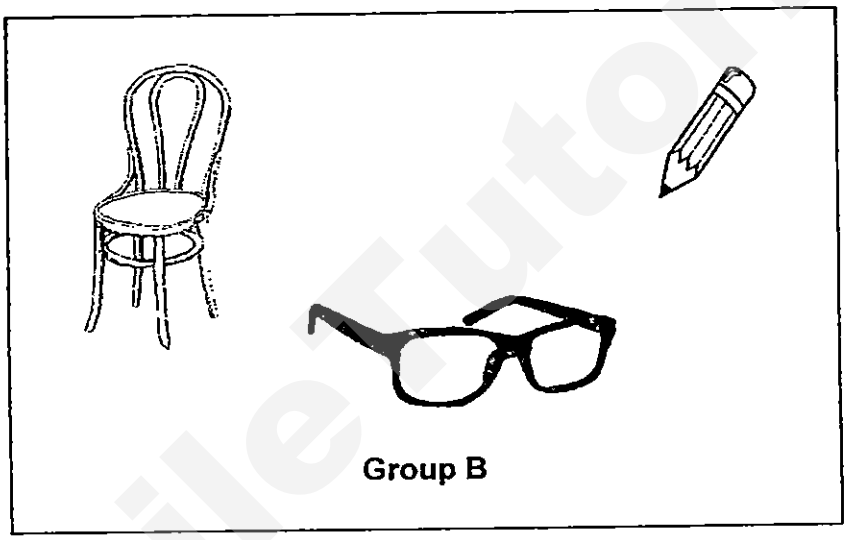
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26(a) Study the objects in group A and B as shown in the diagrams below.



Group A



Group B

(a) Give suitable headings for group A and B to show how the objects are grouped. [1]

Group A: _____

Group B: _____

Continue on the next page

Score	1

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Continue from previous page

26(b) Sharon wanted to keep a parrot as a pet.
Suggest how she should take care of it to ensure its survival and growth [1]

_____

_____

27 Peter found two animals, X and Y, in the garden.
The table below shows what he had observed.

Animals / Characteristics	X	Y
Body coverings	Moist skin	Feathers
Number of legs	4	2
Number of wings	0	2

Based on the information above, answer the following questions:

(a) Name the animal group for X and Y. [1]

Animal X: _____

Animal Y: _____

(b) Name a possible animal for X. [1]

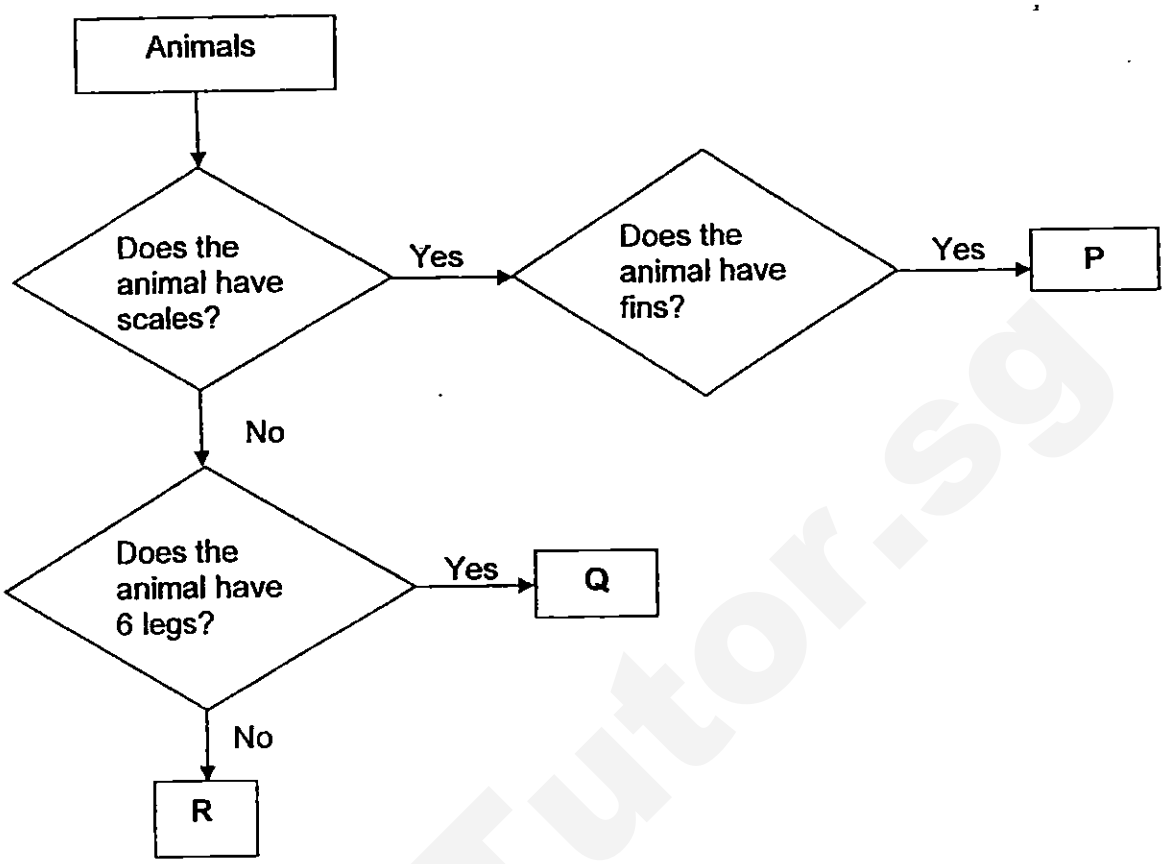
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Score	/ 3

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28 Study the flow chart below carefully.



(a) Based on the information provided above, write down 2 characteristics of animal Q. [1]

Characteristic 1	_____
Characteristic 2	_____

(b) Based on the information above, state a difference between animals P and R. [1]

_____

_____

Score	2

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29. (a) State one similarity between a fern and fungus. [1]

_____

_____

(b) State one difference between a fern and fungus. [1]

_____

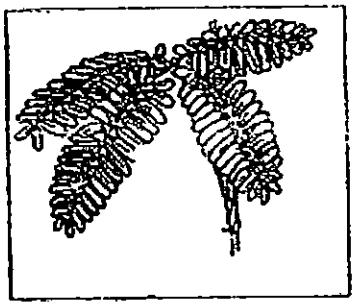
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Score	/ 2

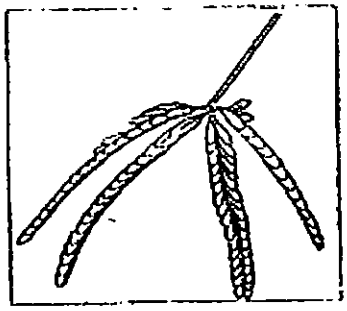
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30. The diagram below shows a section of a mimosa plant before and after being touched.



Before being touched

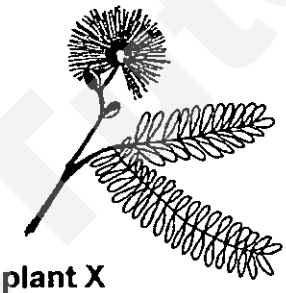


After being touched

(a) Name the characteristic of living thing shown by the above observation. [1]

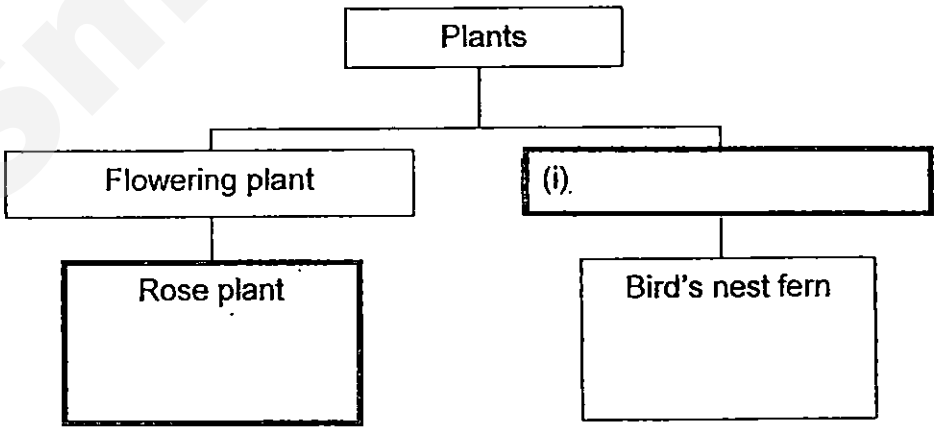
_____

The diagram below shows a plant X.



plant X

(b) Observe plant X carefully and complete the table below by: [2]
(i) Provide a suitable sub-heading;
(ii) Put plant X in the correct box.



Score	3

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31. For each of the statement below, fill in the blanks with the letter "T" for "True" and the letter "F for False. [2]

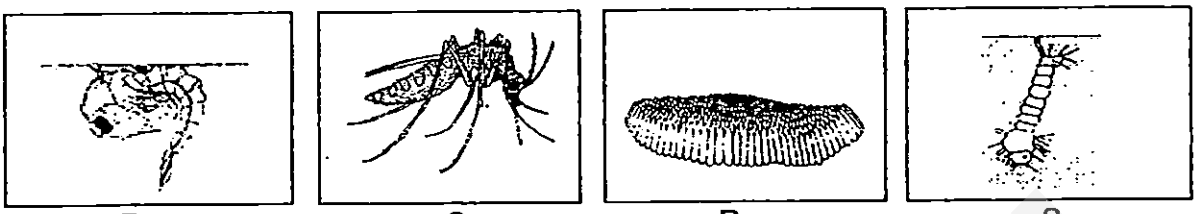
	Statements	"T" or "F"
(a)	All insects have 3-stage life cycle.	
(b)	Mealworms stop feeding at pupa stage.	
(c)	Both cockroach and grasshopper have young that look like their adults.	
(d)	The life cycle of an animal begins with an egg.	

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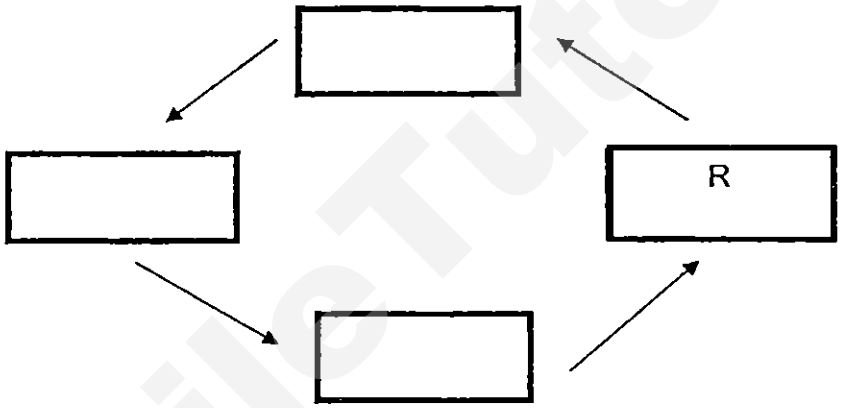
Score	/ 2

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32. Study the diagram below carefully.
P, Q, R and S show the different stages in the life cycle of a mosquito.



(a) Fill in the letters, P, Q, R and S, into the correct boxes to show the correct stages of the life cycle of a mosquito. [1]



(b) Name another animal that has a four-stage life cycle. [1]

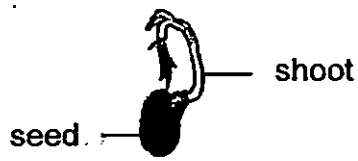
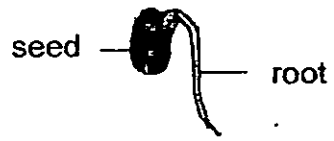
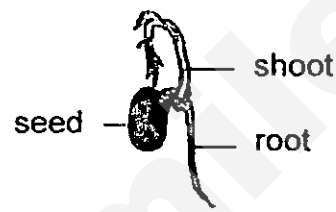
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Score	2

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33. Peiling placed a seed on a piece of wet cotton wool. After a day, she observed that the seed started to germinate.

(a) Based on the information above, which picture(s) would Peiling likely to observe after a day? Put a tick in the box(es) for your answer. [1]

	Tick (✓)
	
	
	

(b) Besides air and water, name <u>one other</u> condition needed for the seed to germinate. [1]

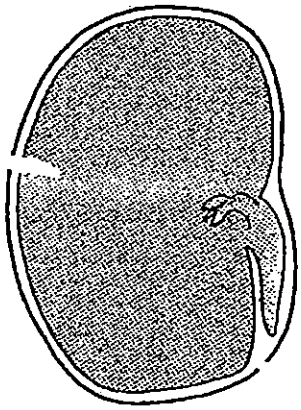
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Score	/ 2

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34. The diagram below shows a germinating seed.



(a) **Name and label** the part that provides food for the germinating seed in the diagram above. [1]

Mr Lim put 10 seeds X into different types of soil, P, Q and R. He provided the seeds with the same conditions.

After 7 days, he recorded the number of seedlings observed and the tallest height of the seedlings as shown in the table below.

Types of soil	**P**	**Q**	**R**
Number of seedlings observed	3	8	8
Tallest height of seedlings (cm)	4	10	6

(b) Based on the information provided above, which type of soil is best suited to grow seed X? Give a reason for your answer. [1]

_____

_____

Score	2

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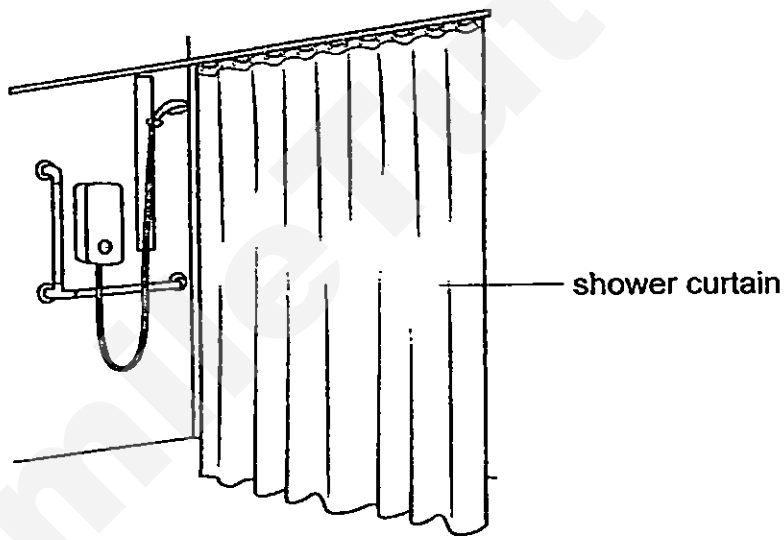
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35. Fatimah shone a torch on four different types of materials to test their degree of transparency.

(a) Put a tick (✓) against the condition(s) below that has to be kept the same to ensure her test is fair. [1]

Condition	Tick (✓)
The torch used	
The type of material used	
The thickness of the material used	
The distance between the torch and the material	

The picture below shows a shower curtain.



Fatimah decided to use one of the materials tested in part (a) to make into the shower curtain.

(b) Name **ONE OTHER** property of material that is taken into consideration when it is used to make the shower curtain. [1]

_____

_____

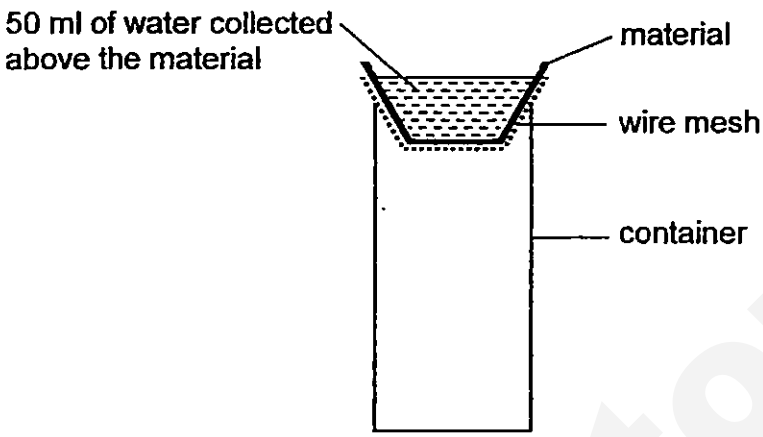
Score	2

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36. Ali had 3 different pieces of materials, X, Y and Z, of similar size and thickness.

He set up his experiment using the apparatus as shown in the diagram below and poured 50 ml of water on each material. He recorded the amount of water collected in the container as well as above the material.



After 5 minutes, he recorded his readings in the table below.

Material	Amount of water collected in the container (ml)	Amount of water collected above the material (ml)
X	50	0
Y	5	0
Z	0	50

Based on the information above, answer the following questions:

(a) Which material, X, Y or Z, is most suitable to be made into a bath towel? Give a reason for your answer. [1]

_____

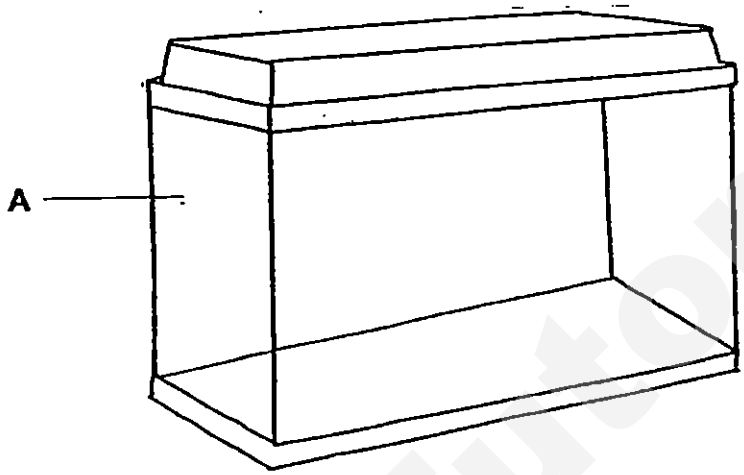
_____

Score	/ 1

Continue on the next page

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The diagram below show part A of a fish tank that is made from one of the materials, X, Y or Z.



(b) Based on the information in the result table, which material, X, Y or Z, was most likely used to make part A? Give a reason for your answer. [1]

_____

_____

(c) Name a material that has the property mentioned in your answer in (b) which is suitable to make part A of the fish tank. [1]

_____

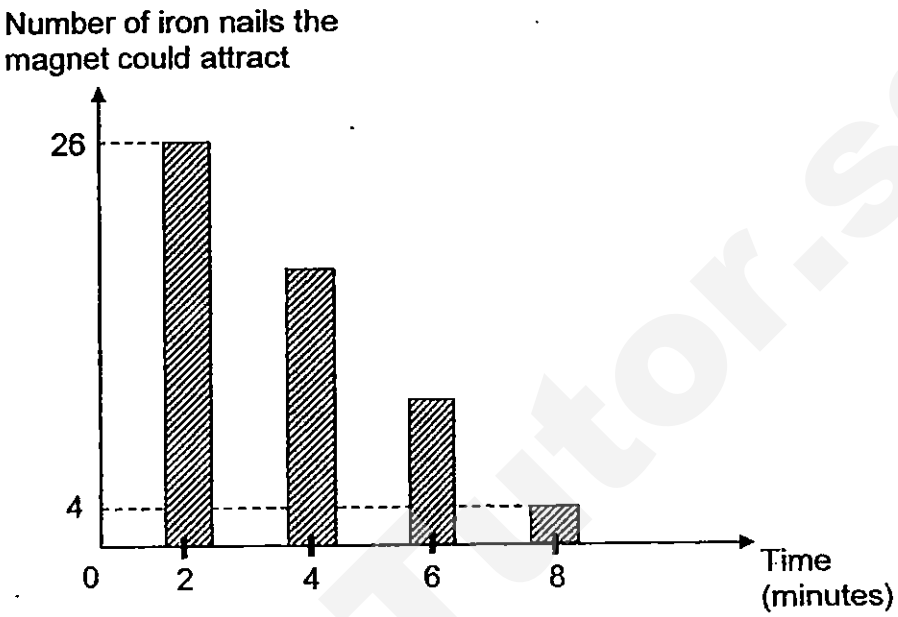
Score	/ 2

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37. Sarah tested a magnet and found that it could attract 30 iron nails.
She then placed the magnet over a candle flame for 2 minutes and recorded the number of iron nails it could attract.

She continued the same process but each time she placed the magnet over the candle for 2 more minutes.

The bar graph below shows her results.



Based on the information above, answer the following questions:

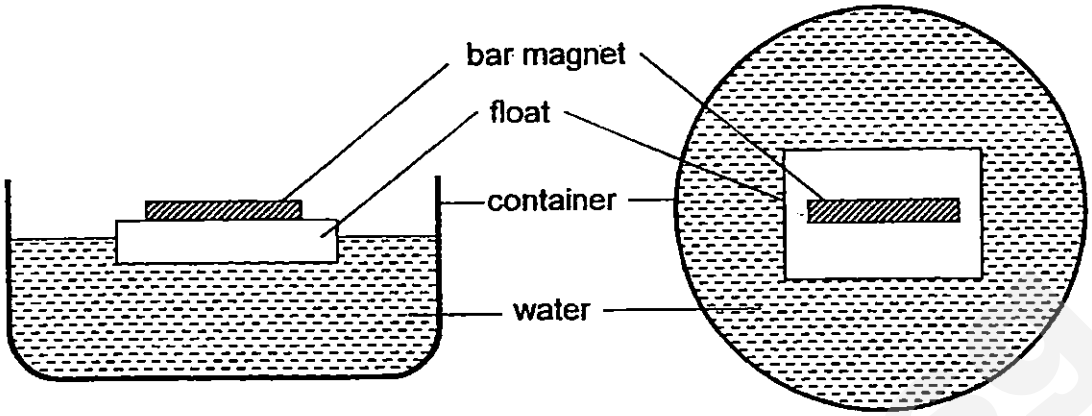
(a) What was the relationship between the amount of time the magnet was placed over the candle flame and the number of nails it could attract? [1]

(b) Predict the number iron nails the magnet could attract after it was placed over the candle flame for over 10 minutes. [1]

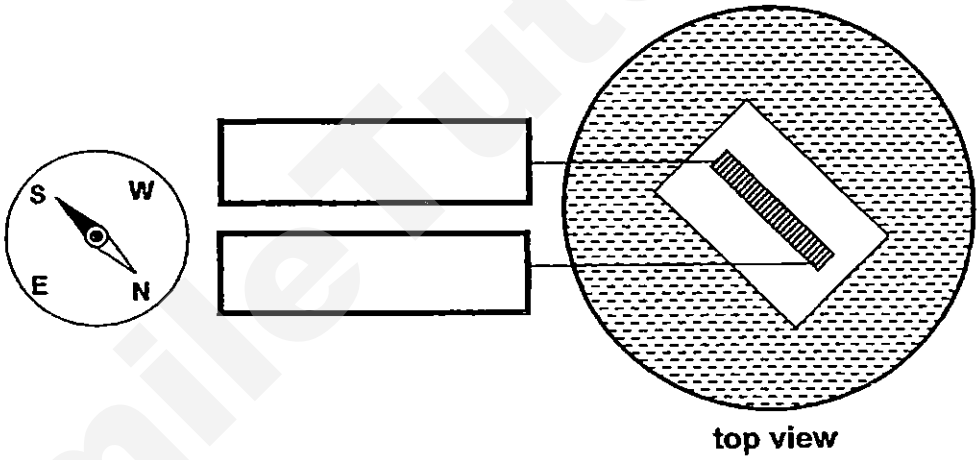
Score	/ 2

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38. Ben tied a piece of bar magnet on a float and placed it on a container of water. The diagrams below showed the side and top view of the set-up.



The bar magnet came to a rest after a few minutes and Ben took a compass and checked the direction as shown in the diagrams below.



(a) Identify the pole of the bar magnet above.

Write "N-pole" and "S-pole" in the boxes provided. [1]

Score	1

Continue on next page

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Ben next took another piece of bar magnet as shown in the diagram below.



He broke the bar magnet into 3 smaller pieces as shown in the diagram below.



(b) Describe what would Ben observe when he placed pole X near to pole Y? [1]

_____

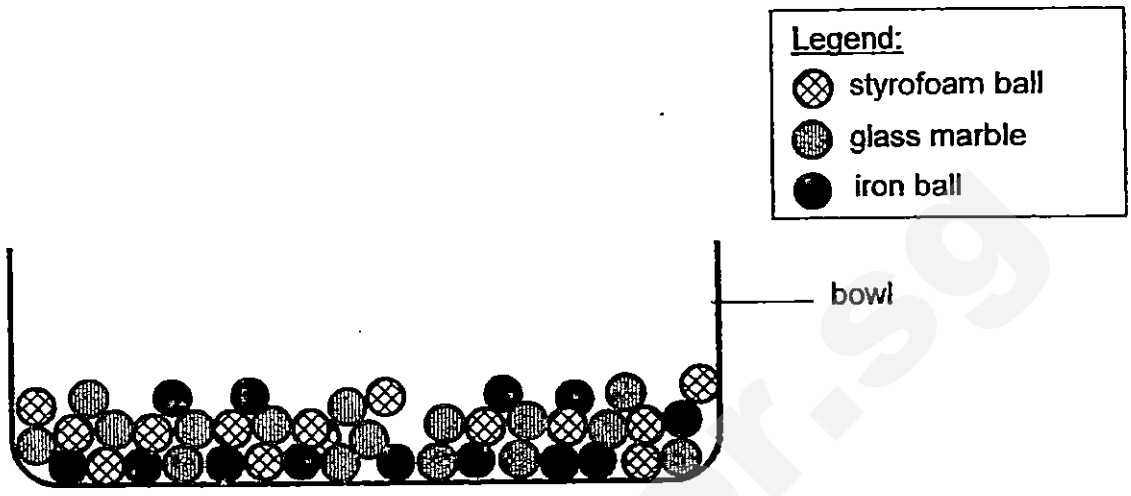
_____

Score	1

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39. Aishah was given a bowl that contained a mixture of iron balls, glass marbles and styrofoam balls as shown in the diagram below.



Below were the steps Aishah took to separate the mixture in the bowl.

Arrange the steps in a logical order by writing the **numbers 1, 3 and 4** in the table below.

Step 2 has been filled in for you. [2]

Description of the steps	**Order**
Pour some water into the bowl and stir the mixture of balls with a wooden rod.	
Pour away the water to leave the bowl with only the glass marbles.	
Use a piece of bar magnet to attract the iron balls from the bowl.	
Scoop out the styrofoam balls that are floating on the water.	2

Score	/ 2

-END OF PAPER-

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL
SUBJECT : SCIENCE
TERM : SA2

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
4	**2**	**2**	**1**	**3**	**3**	**1**	**2**	**4**	**3**
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
3	**4**	**1**	**2**	**1**	**4**	**3**	**4**	**3**	**3**
Q21	Q22	Q23	Q24						
1	**4**	**3**	**3**						

Q25. W – Living things
Q25. X – Non – living things
Q25. Y – Animals
Q25. Z – fungi

Q26a. Group A: Living things Q26a. Group B : Non – living things

Q26b. She has to give it air, food and water to survive.

Q27a. Animal X: amphibian Animal Y: bird

Q27b. Frog

Q28a. Characteristic 1 – It does not have scales.

Q28a. Characteristic 2 – It has six legs.

Q28b. P has scales but R does not.

Q29a. Both reproduces by spores.

Q29b. Fungus does not need sunlight to grow, but fern does.

Q30a. Living things responds to changes around them.

Q30b. (i) Non – flowering plant

Q30b (ii) Plant X – Rose Plant

Q31a. FALSE Q31b. TRUE Q31c. TRUE Q31d. FALSE

Q32a. **SEE PICTURE** Q32b. Butterfly

Q33a. **SEE PICTURE** Q33b. Presence of warmth

Q34a. **SEE PICTURE** Q34b. Q. Q makes the seedlings grow the tallest.

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Q35a. The torch used / The thickness of material used / The distance between the torch and the material

Q35b. It must be waterproof

Q36a. Material Y. Material Y was able to absorb water.

Q36b. Z. It is waterproof. Q36c. Glass

Q37a. The longer the magnet was placed over the candle flame, the lesser number of nails it could attract. Q37b. One

Q38a. **SEE PICTURE** Q38b. Both poles will move away from each other .

Q39. 1 – Pour some water into the bowl and stir the mixture of balls with a wooden rod.

Q39. 2 – Scoop out the Styrofoam balls that are floating on the water.

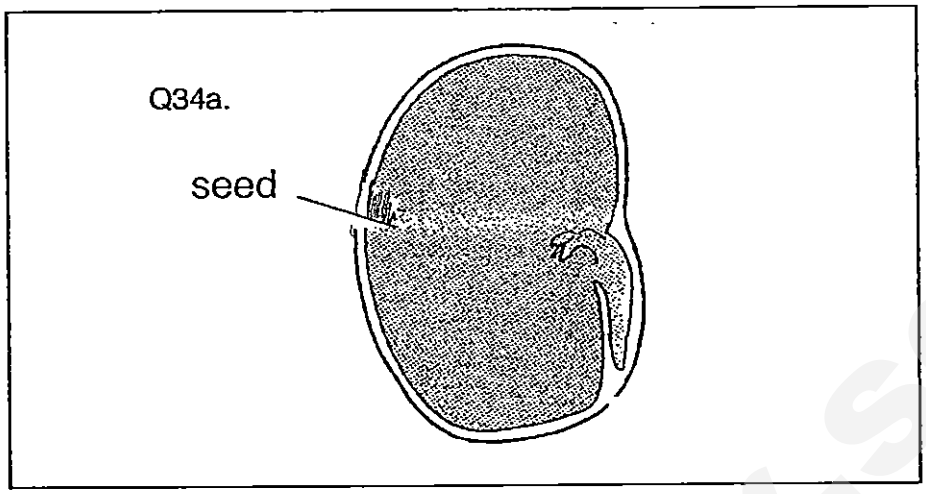
Q39. 3 – Use a piece of bar magnet to attract the iron balls from the bowl.

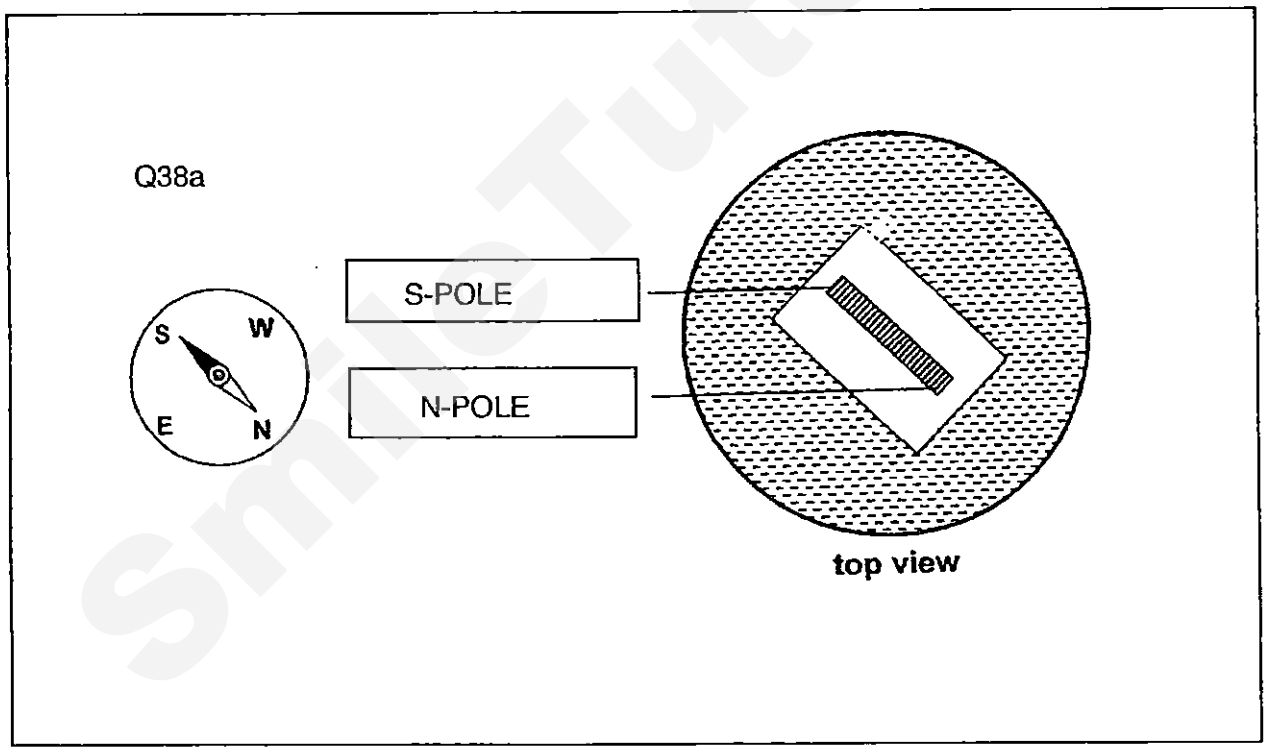
Q39. 4- Pour away the water to leave the bowl with only the glass marbles.

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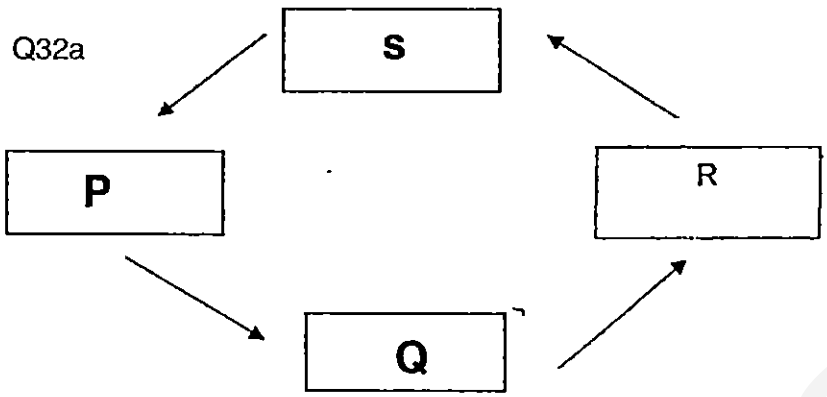


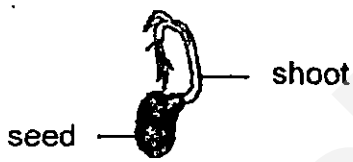
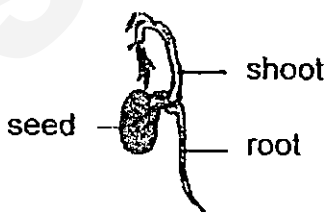
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Q32a



Q33a.	Tick (✓)
	
	✓
	

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恭宽信敏
RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

SCIENCE
2015 SEMESTRAL EXAMINATION 2
PRIMARY 3

Name : _____ **( )**

Class : Primary 3/ _____

Date : 2 November 2015

BOOKLET A

Total time for Booklets A & B: 1h 30 min

Booklet A: 24 questions (48 marks)

Note:

1. **Do not open the booklet until you are told to do so.**
2. **Read carefully the instructions given at the beginning of each part of the booklet.**
3. **Do not waste time. If the question is too difficult for you, go on to the next question.**
4. **Check your answers thoroughly and make sure you attempt every question.**
5. **In this booklet, you should have the following:**
   a. **Page 1 to Page 14**
   b. **Questions 1 to 24**

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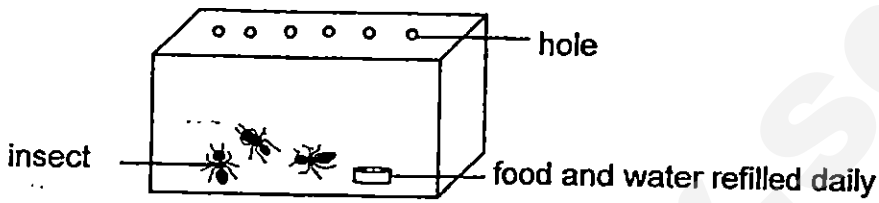
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Section A:

For Questions 1 to 24, choose the most suitable answer and shade its number in the OAS provided.

1. Thomas kept three insects in a box. The box was placed in the Science room. He recorded his observation in the table below.

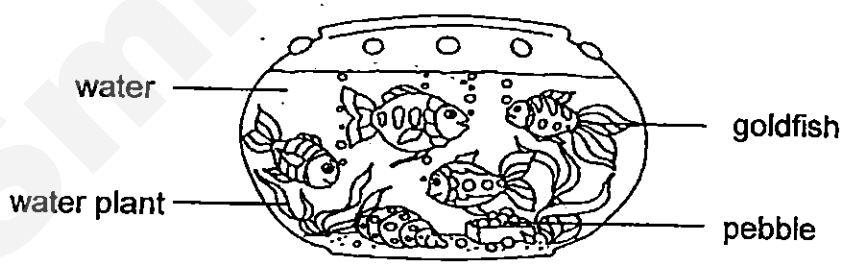


Day	Number of insects
0	3
5	1
10	0

Based on his observation, what characteristic of living things is shown by the insects at the end of day 10?

(1) Living things die.
(2) Living things grow.
(3) Living things reproduce.
(4) Living things respond to changes.

2. Mark bought some goldfish and placed them inside a tank as shown below.



Which of the following is correctly classified?

	Living things	Non-living things
(1)	goldfish and water	water plant and pebble
(2)	goldfish and pebble	water plant and water
(3)	water plant and goldfish	pebble and water
(4)	pebble and water	water plant and goldfish

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3. The table below shows the characteristics of four things.

	needs air, food and water to survive	responds to changes	reproduces
chicken	yes	yes	no
clock	no	yes	yes
fern	yes	yes	no
yeast	yes	yes	yes

Which one of the following things in the table is correctly described?

(1) chicken
(2) clock
(3) fern
(4) yeast

4. The picture below shows a bat.



A bat is not classified in the same group of animals as a bird. Some students made the following statements to try and explain why.

A: A bat has tiny wings but a bird has large wings.
B: A bat has hair as its body covering but a bird has feathers.
C: A bat has short legs but a bird has long legs.

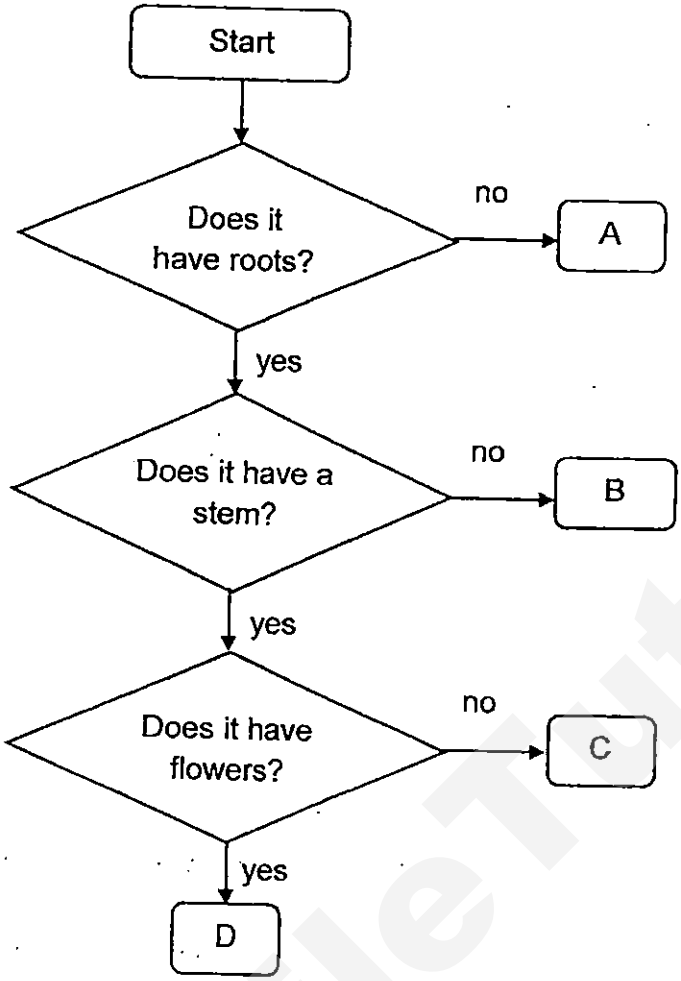
Which of the statement(s) is/are the correct explanation?

(1) B only
(2) A and B only
(3) A and C only
(4) A, B and C

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5. Study the flow chart below carefully.
The letters A, B, C and D represent four different organisms.



Which of the following best represents a mushroom?

(1) A
(2) B
(3) C
(4) D

6. Which of the following best describes the function of the teeth?

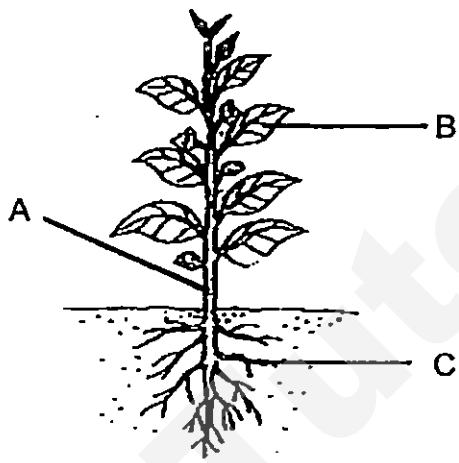
(1) It breaks down food into smaller pieces.
(2) It absorbs water from the undigested food.
(3) It allows digested food to be absorbed into the blood stream.
(4) It connects the stomach to the small intestine.

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7. Which of the following is not part of the circulatory system?

(1) heart
(2) brain
(3) blood
(4) blood vessels

8. Study the picture below carefully.



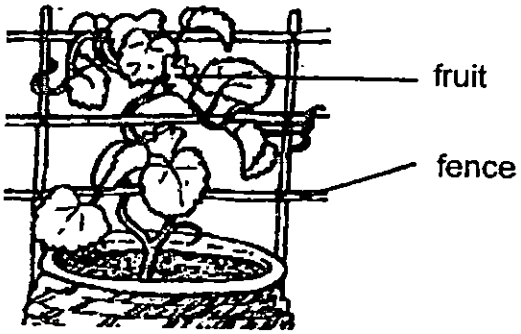
What do A, B and C represent?

	A	B	C
(1)	leaf	root	stem
(2)	root	leaf	stem
(3)	stem	leaf	root
(4)	root	stem	leaf

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9. Lebron discovered plant Y growing up the school fence as seen below.

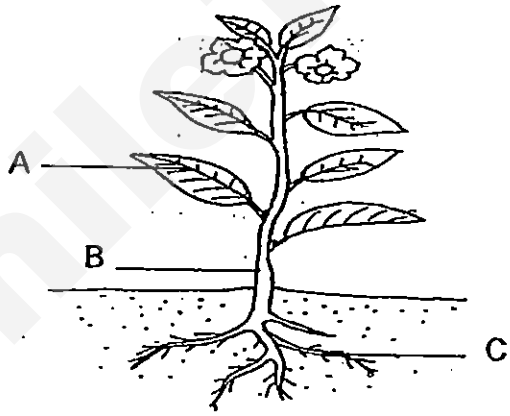


Which of the following statements are true about this plant?

A: Plant Y can make food.
B: Plant Y has a weak stem.
C: Plant Y is a flowering plant.

(1) A and B only
(2) A and C only
(3) B and C only
(4) A, B and C

10. Study the diagram shown.

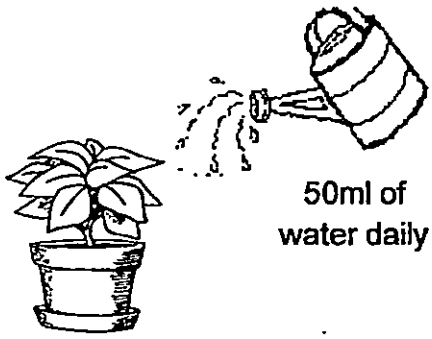


Which of the following is correct?

	Absorbs water	Keeps the plant upright	Makes food for the plant
(1)	B	C	A
(2)	C	A	B
(3)	C	B	A
(4)	B	A	C

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11. Lee Sin has two similar potted plants with a height of 20 cm.
She placed them in the same location in a garden but watered them with different amount of water daily.



Plant A



Plant B

At the end of two weeks, she measured the height of each plant and recorded them in the table below.

	Height of plant
Plant A	25 cm
Plant B	30 cm

What is the aim of Lee Sin's experiment?

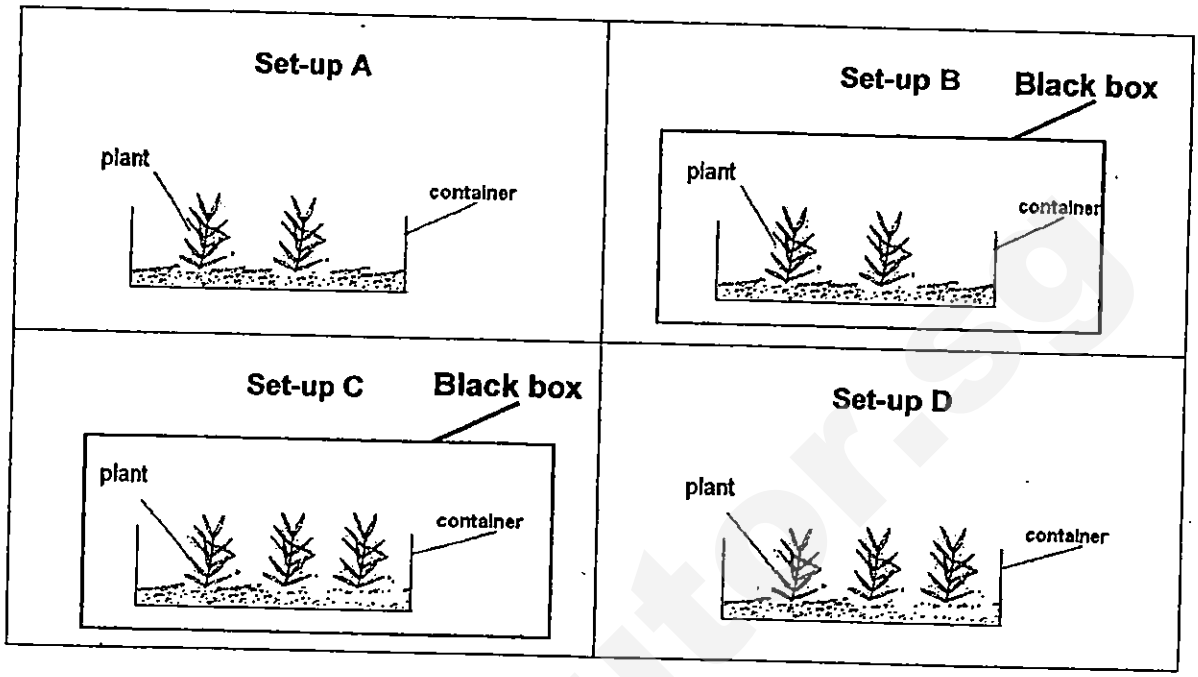
To find out if the _____ affects the growth of the plant.

(1) amount of fertiliser used
(2) amount of water used
(3) location of the plants
(4) type of plant

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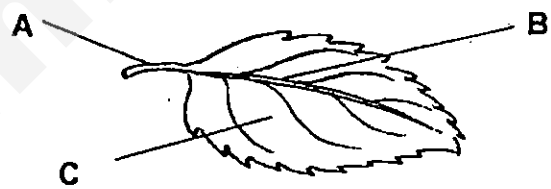
12. Sammy wanted to find out if the amount of light affects the growth of the plant.



Which two set-ups should Sammy use to ensure it is a fair test?

(1) A and C
(2) B and C
(3) B and D
(4) C and D

13. Four pupils are tasked to identify the different parts of the leaf as shown below.



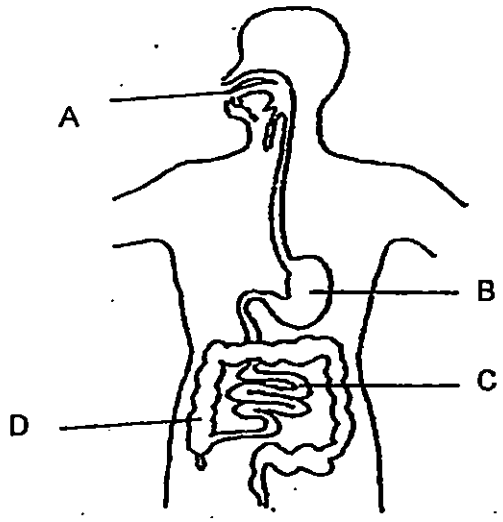
Which of the following correctly identify the different parts of the leaf?

	A	B	C
(1)	vein	blade	stalk
(2)	stalk	vein	blade
(3)	stalk	blade	vein
(4)	blade	vein	stalk

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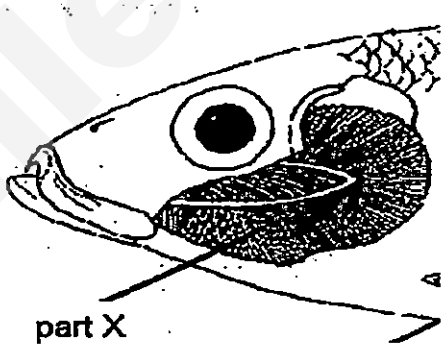
14. The diagram below shows the human digestive system.



At which parts of the system are digestive juices added?

(1) A and B only
(2) B and C only
(3) C and D only
(4) A, B and C only

15. The diagram shows the head of a fish. Part X is classified in the same body system as the lungs in the human body system.



Which of the following correctly identify part X and the body system part X is classified under?

	Part X	Body System
(1)	Gills	Circulatory
(2)	Gills	Respiratory
(3)	Fins	Muscular
(4)	Fins	Skeletal

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16. James conducted an experiment with two planks. Each plank is made of a different material. The length and thickness of each plank is the same. The diagrams show what happened after a 100g load was placed on each plank.

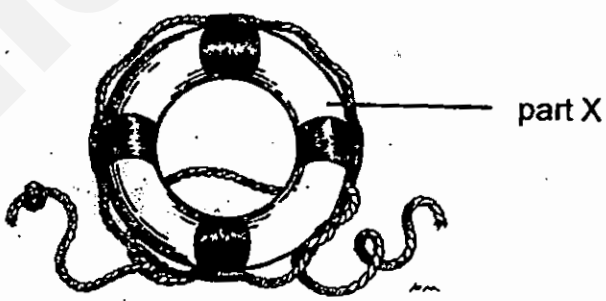


What can James conclude about plank P and Q?

Plank P is _____ than Plank Q.

(1) heavier
(2) lighter
(3) weaker
(4) stronger

17. The diagram shows a life buoy which is used to save people from drowning in the swimming pool.



For the material used to make part X, what is the most important property it must have?

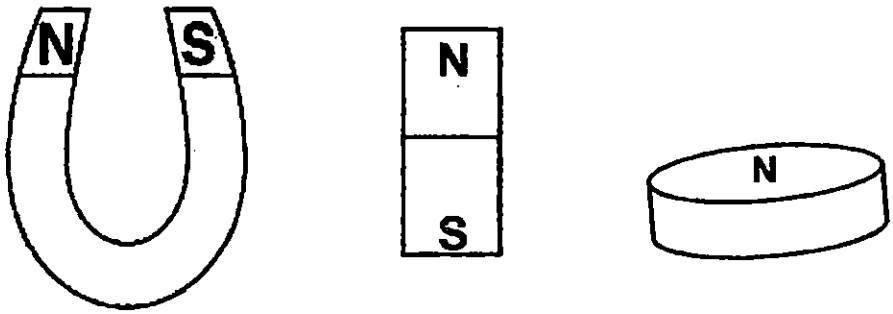
The material must be _____.

(1) heavy
(2) transparent
(3) waterproof
(4) able to sink in water

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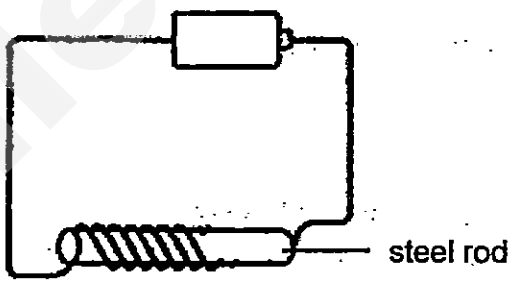
18. Bernice is given a box containing the magnets shown.



Which one of the following types of magnets is not found in the box?

(1) bar magnet
(2) ring magnet
(3) button magnet
(4) horseshoe magnet

19. Olivia has a set-up as shown.



What can she do to increase the magnetic strength of the steel rod?

A: Add one more battery to the set-up.
B: Coil the wires around the battery.
C: Increase the number of coils of wire around the steel rod.

(1) A only
(2) B only
(3) A and C only
(4) B and C only

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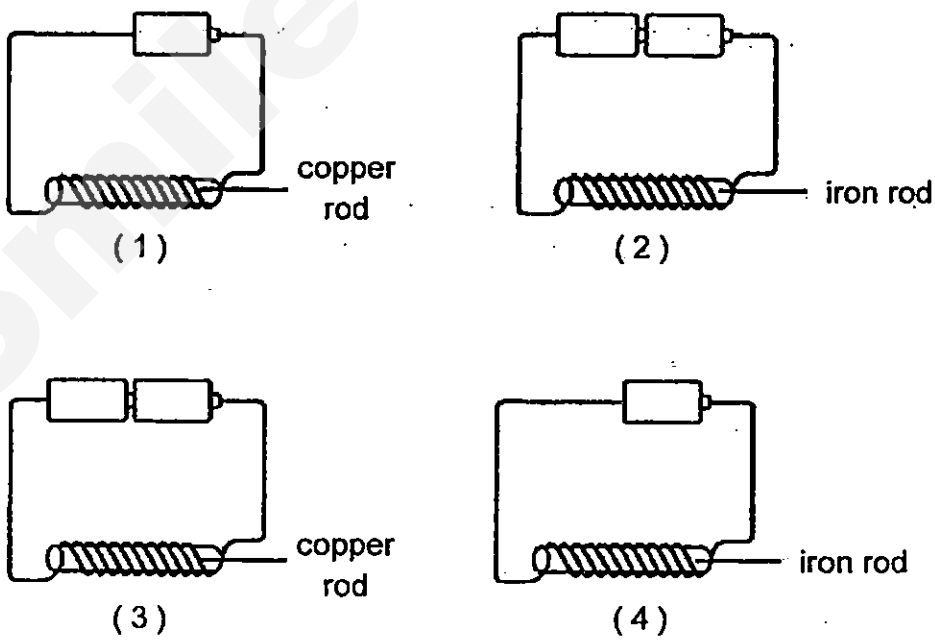
20. Ali recorded the interactions a magnet has with three different objects in the table shown.

Object	Attracted by the magnet	Repelled by the magnet
A	√	√
B	√	X
C	X	X

Which of the objects are made of magnetic materials?

(1) A and B only
(2) A and C only
(3) B and C only
(4) A, B and C

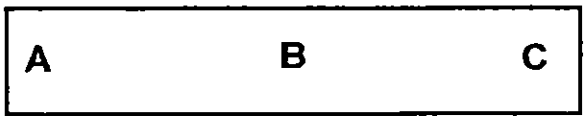
21. Which of the following electromagnet has the greatest magnetic strength?



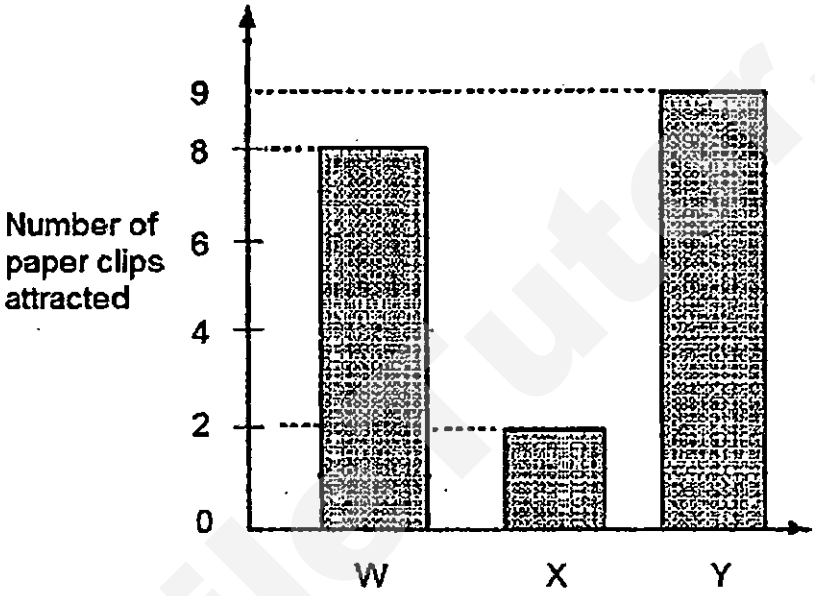
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22. Minah bought a new bar magnet. She tested the magnetic strength of the bar magnet by putting some steel paper clips at parts A, B and C of the magnet respectively.



She then recorded the number of steel paper clips attracted to each part of the magnet in the graph below. However, she mixed up the results.

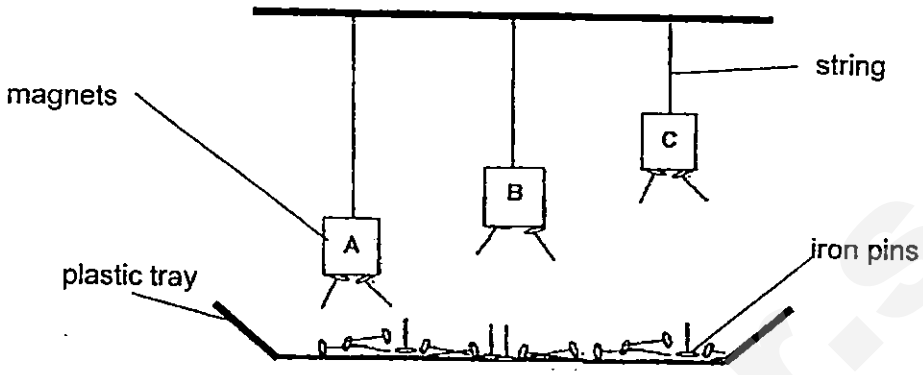


Which one of the following shows the most likely number of paper clips attracted by each part of the magnet?

	Part A	Part B	Part C
(1)	W	X	Y
(2)	X	W	Y
(3)	Y	W	X
(4)	W	Y	X

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23. Jacqueline wanted to find out whether the distance between the magnet and the iron pins affect the number of iron pins attracted by the magnets.
She placed three different types of magnets, A, B and C, at different heights as shown below.



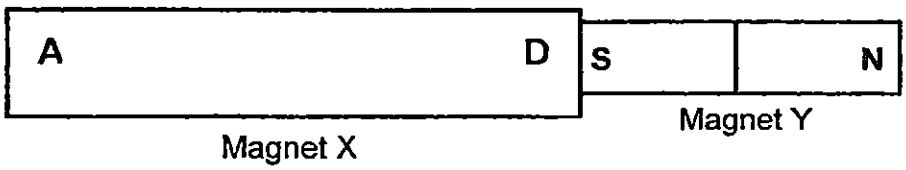
What should Jacqueline do to ensure her set-up is a fair one?

(1) She must use strings of equal length.
(2) She must change the iron pins to silver pins.
(3) She must replace the plastic tray with a wooden tray.
(4) She must use the same type of magnets.

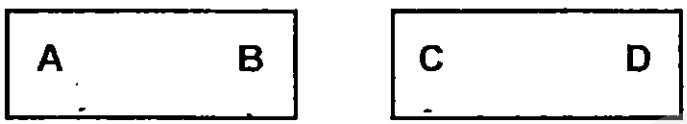
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24. Magnet X has two unknown poles A and D. The diagram shows the result when magnet Y was placed near magnet X.



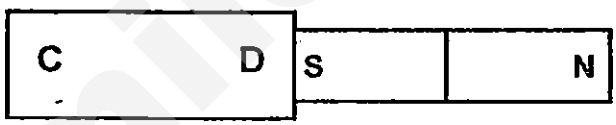
Jane then cut magnet X into two pieces as seen below. When it is cut, it became two separate magnets.

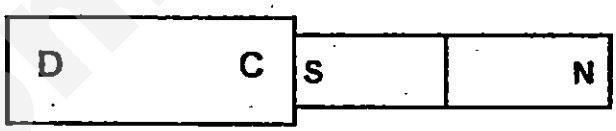


Which one of the following arrangements of the magnets is correct?

(1) 

(2) 

(3) 

(4) 

End of Section A

Please check your answers.

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RED SWASTIKA SCHOOL

SCIENCE
2015 SEMESTRAL EXAMINATION 2
PRIMARY 3

Name : _____ ( )

Class : Primary 3/ _____

Date : 2 November 2015

BOOKLET B

10 Questions
32 Marks

In this booklet, you should have the following:
a. Page 15 to Page 26
b. Questions 25 to 34

MARKS

	OBTAINED	POSSIBLE
BOOKLET A		48
BOOKLET B		32
TOTAL		80

Parent's Signature : _____

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Section B:

Answer all questions in the space provided.

25. Charlie accidentally left two donuts in a sealed bag before he went for a one week vacation. When he came back home, he saw some black spots growing on the donuts as seen in diagram 1.

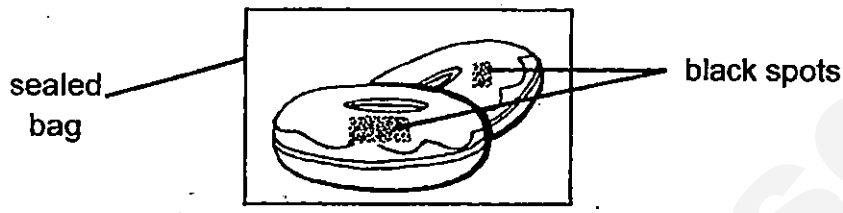


Diagram 1

(a) From reading his Science textbook, Charlie knows that the black spots contain bread mould. What other living things can be found on the black spots? (1m)

_____

Charlie left the donuts on the table for another week to observe what would happen to them.

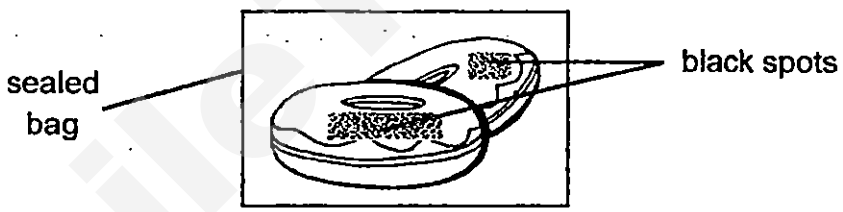


Diagram 2

(b) Based on diagram 2, describe the change in the amount of bread mould on the donuts after one more week. (1m)

_____

_____

(c) What characteristic of living things is shown by the change in the amount of bread mould? (1m)

_____

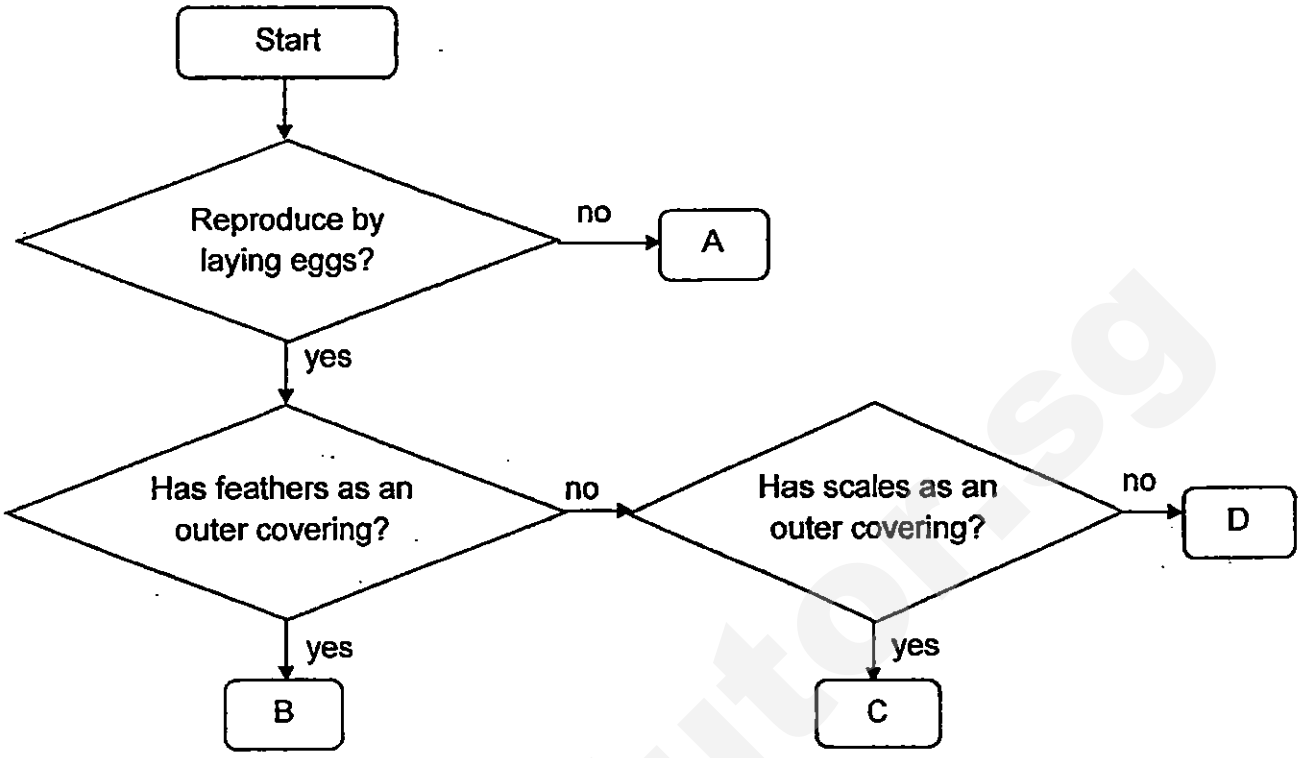
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26. Study the flow chart.



(a) Based on the flow chart, identify the characteristics of animal B. (1m)

_____

_____

(b) State a difference between animal A and animal D. (1m)

_____

_____

(c) Which animal (A, B, C or D) would best represent a goldfish? (1m)

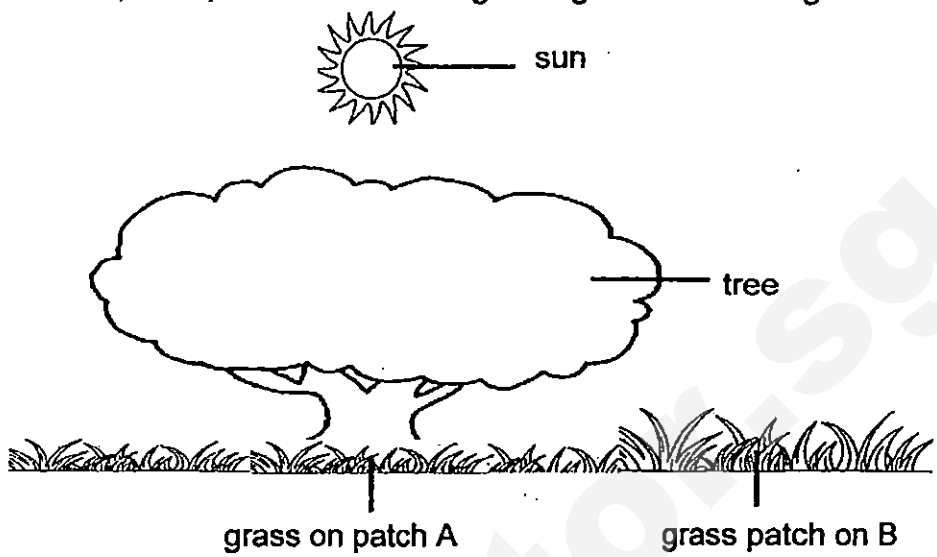
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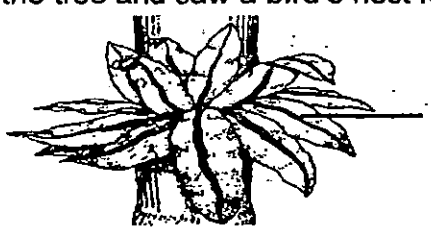
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27. One month ago, Ahmad cut all the grass in the garden to the same height. He added the same amount of fertilisers and water to the ground daily. One month later, he observed the following during his walk in the garden.



(a) He observed that the grass on patch A under the tree were shorter than the grass on patch B. Explain why. (2m)

He took a closer look at the tree and saw a bird's nest fern growing on its trunk.



(b) Study the two statements Ahmad made about the bird's nest fern.
Tick (√) the correct box for both parts (i) and (ii). (1m)

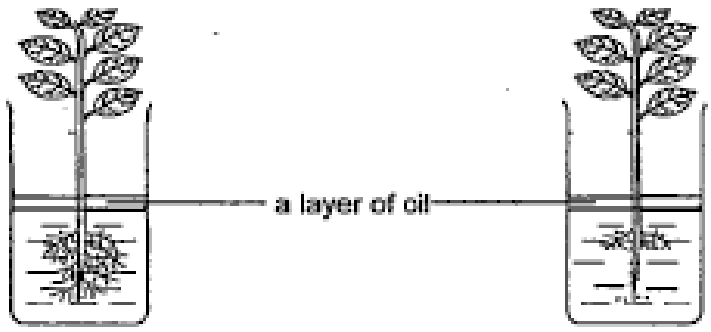
		True	False
(i)	Bird's nest fern is not able to make its own food.		
(ii)	Bird's nest fern reproduces by seeds.		

3

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28. Hassan has two set-ups, P and Q. He placed them at the same location.



He observed the set-ups for the next three days and recorded the amount of water absorbed by the plants in both set-ups.

Day	0	1	2	3
Volume of water in Set-up P (ml)	300	260	220	180
Volume of water in Set-up Q (ml)	300	280	260	240

(a) What can be observed about the volume of water in set-up P compared to set-up Q at the end of 3 days? (1m)

_____

_____

(b) What can he conclude about the experiment? (1m)

_____

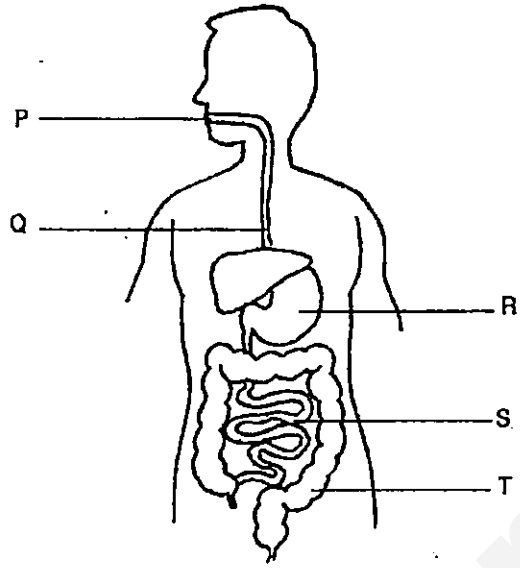
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2

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29. Study the human body system shown.



(a) Name the part labelled R. (1m)

_____

(b) At which part, P, Q, R, S or T, is digestion of food completed? (1m)

_____

(c) What is the function of the part labelled T? (1m)

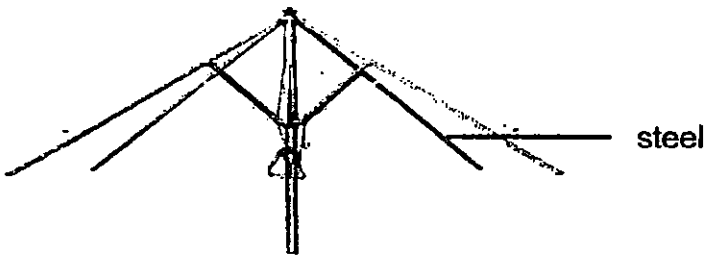
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3

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30. During the production of an umbrella, it is important to make the frame of the umbrella using steel before covering it with waterproof fabric.



frame of an umbrella

(a) Name the human body system that has a similar function as the frame of the umbrella. (1m)

_____

(b) State a similarity between the function of the frame of the umbrella and the system identified in part (a). (1m)

_____

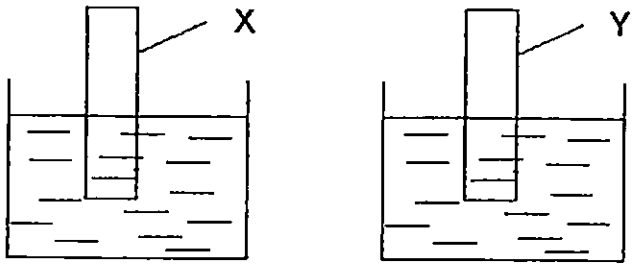
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2

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31. Edwin placed strips of two materials, X and Y, into two identical beakers of water for two minutes and recorded their masses.



Time (minutes)	Mass of Material X (g)	Mass of Material Y (g)
0	10	10
1	13	10
2	16	10

(a) What can he conclude about material Y? (1m)

_____

_____

(b) His friend asked him to repeat the experiment a few more times. How is this helpful to the results of the experiment? (1m)

_____

_____

(c) He accidentally spilled his orange juice on the table. Which material should he use to dry up the table? Explain your answer. (2m)

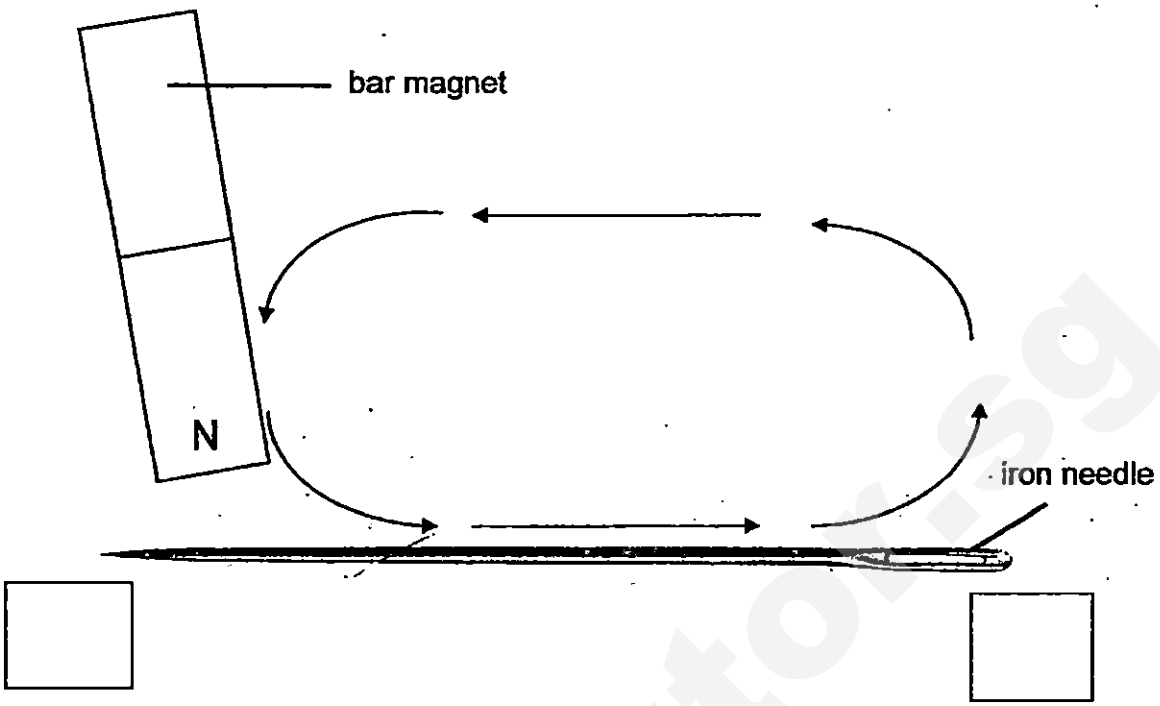
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4

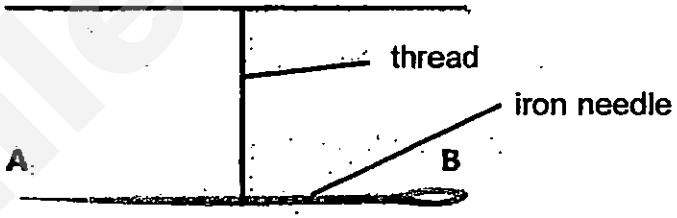
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32. Martha is trying to create a magnet by stroking an iron needle in the direction shown repeatedly using a bar magnet.



(a) Identify the two poles of the iron needle when it is magnetised by writing 'N' as the North-seeking pole and 'S' as the South-seeking pole in the boxes above. (1m)

She tied the magnetised iron needle on a thread and left it hanging freely.



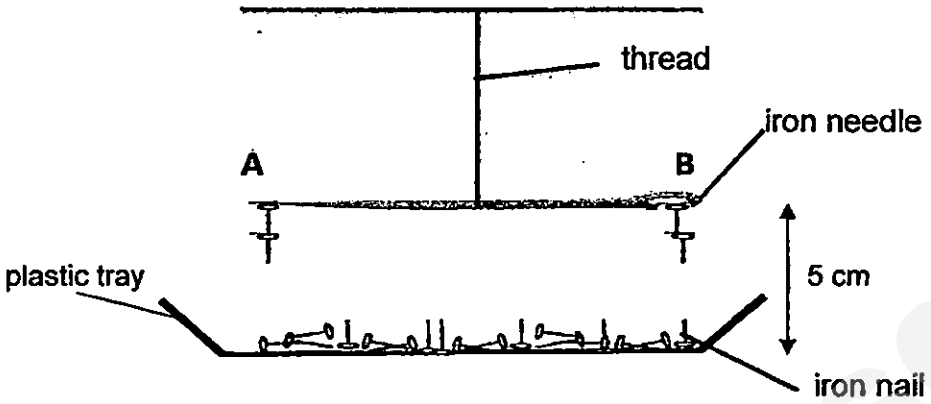
(b) At which direction will the magnetised iron needle come to a rest after it stops moving? (1m)

_____

2

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She placed the magnetised iron needle 5 cm away from the plastic tray as seen below.



(c) State one property of the iron nails which enables them to be attracted by the magnetised needle. (1m)

_____

_____

(d) Using only a bar magnet, what can Martha do to increase the magnetic strength of the needle? (1m)

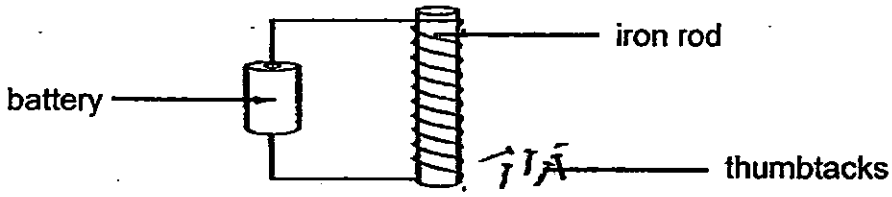
_____

_____

2

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33. Deva set up the experiment as shown.



She has 3 set-ups, A, B and C. Each of the set-ups consists of a similar iron rod and has the same number of coils of wire around the iron rod.
She recorded her observations in the table below.

Set-up	Number of batteries used	Number of thumbtacks attracted by the iron rod
A	1	3
B	2	6
C	3	8

(a) What is the aim of Deva's experiment? (1m)

(b) Give an example of a material that the thumbtack is most likely made of. (1m)

(c) By replacing the iron rod with an aluminium rod, will the experiment still work? Explain why. (1m)

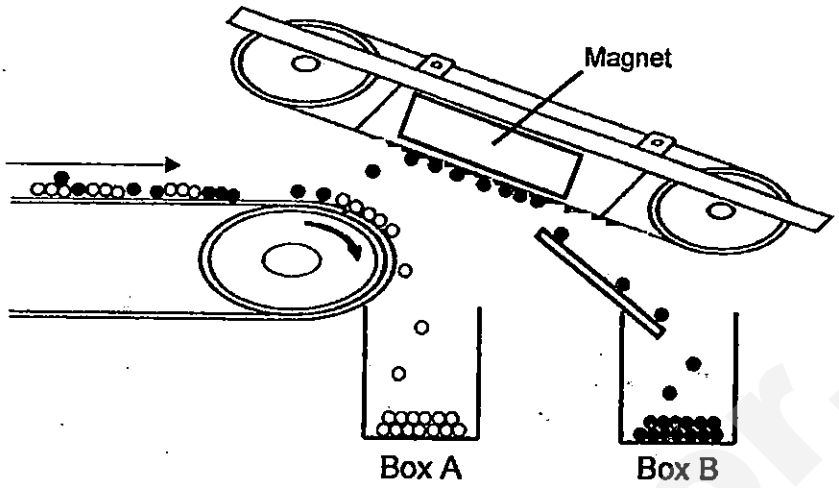
(d) Based on the table, what is the relationship between the number of batteries used and the number of thumbtacks attracted? (1m)

4

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34. A factory makes use of a machine with a magnet to separate the objects into different boxes as shown in the diagram below.



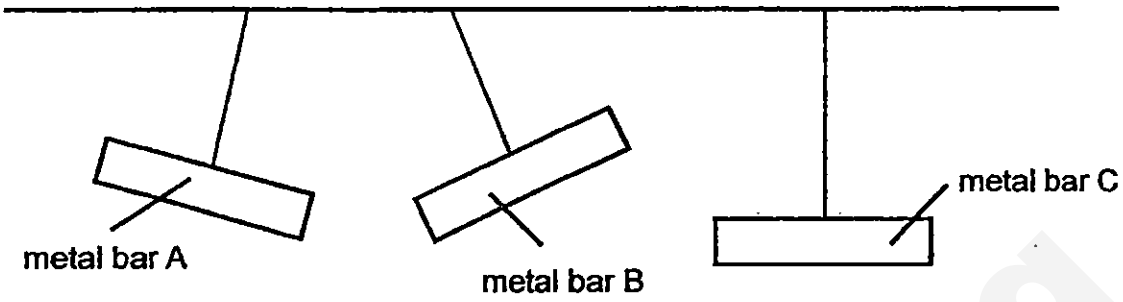
(a) The table shows a list of objects which are sent through the machine. Tick (√) the correct boxes to identify whether the objects will drop into box A or box B. (2m)

Objects	Tick (√) in the correct box(es)	
	Drop into Box A?	Drop into Box B?
Glass marbles		
Nickel coins		
Copper rings		
Steel ball bearings		

2

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(b) Three unknown metal bars are hung side by side from the ceiling.
The diagram below shows the interaction that took place among the metal bars.



(i) Which two of the metal bars, A, B or C, are definitely magnets? (1m)

_____

(ii) Explain your answer in part (i). (1m)

_____

_____

2

End of Booklet B

Please check your answers.

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : RED SWASTIKA SCHOOL
SUBJECT : SCIENCE
TERM : SA2

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
1	**3**	**4**	**1**	**1**	**1**	**2**	**3**	**4**	**3**
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
2	**4**	**2**	**4**	**2**	**4**	**3**	**2**	**3**	**1**
Q21	Q22	Q23	Q24						
2	**1**	**4**	**3**						

Q25. a) bacteria
b) There would be more bread mould on the donuts.
c) Living things reproduce.

Q26. a) Animal B reproduce by laying eggs and has feathers as an outer covering.
b) Animal A does not reproduce by laying eggs but Animal D does.
c) C

Q27. a) Grass on Patch A has less sunlight and will make less food. Hence, the grass on Patch A will grow more slowly than the grass on Patch B.
b) i) False ii) False

Q28. a) The volume of water in set-up would be in set-up Q.
b) A plant with more roots would absorb more water.

Q29. a) Stomach
b) Part S
c) Water is absorbed from the undigested food.

Q30. a) Skeletal System
b) Both give the object their shape.

Q31. a) Material Y is waterproof, so it does not absorb water.
b) It ensures that the results of the experiment are reliable.
c) Material X. It is not waterproof and will be able to absorb the orange juice to dry up the table.

Q32. a) N *(on the left)* , S *(on the right)*
b) It would be facing the North-South direction.
c) The iron nail are made of magnetic material.
d) She can stroke the iron needle using the North-seeking pole of the bar magnet more times in the same direction.

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Q33. a) To find out how the number of batteries affect the magnetic strength of the electromagnet.

b) Steel, Iron, Copper *etc.*

c) No. Aluminum is a non-magnetic material which cannot be magnetised.

d) As the number of batteries used increases, the number of thumbtacks attracted increases.

Q34. a) *Glass Marbles:* Box A, *Nickel Coins:* Box B
Copper Rings: Box A, *Steel ball bearings:* Box B

b) i) Metal Bar A and Metal Bar B.

ii) Metal Bars A and B repel each other as the like poles are facing each other.

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RIVER VALLEY PRIMARY SCHOOL
2015 Semestral Assessment 2
PRIMARY 3

SCIENCE

(BOOKLET A)

Name : _____( ) Date: 03 / 11 / 2015

Class: P3 _____ Total Time for Booklet A & Booklet B : 1 hr 30 mins

INSTRUCTIONS TO CANDIDATES

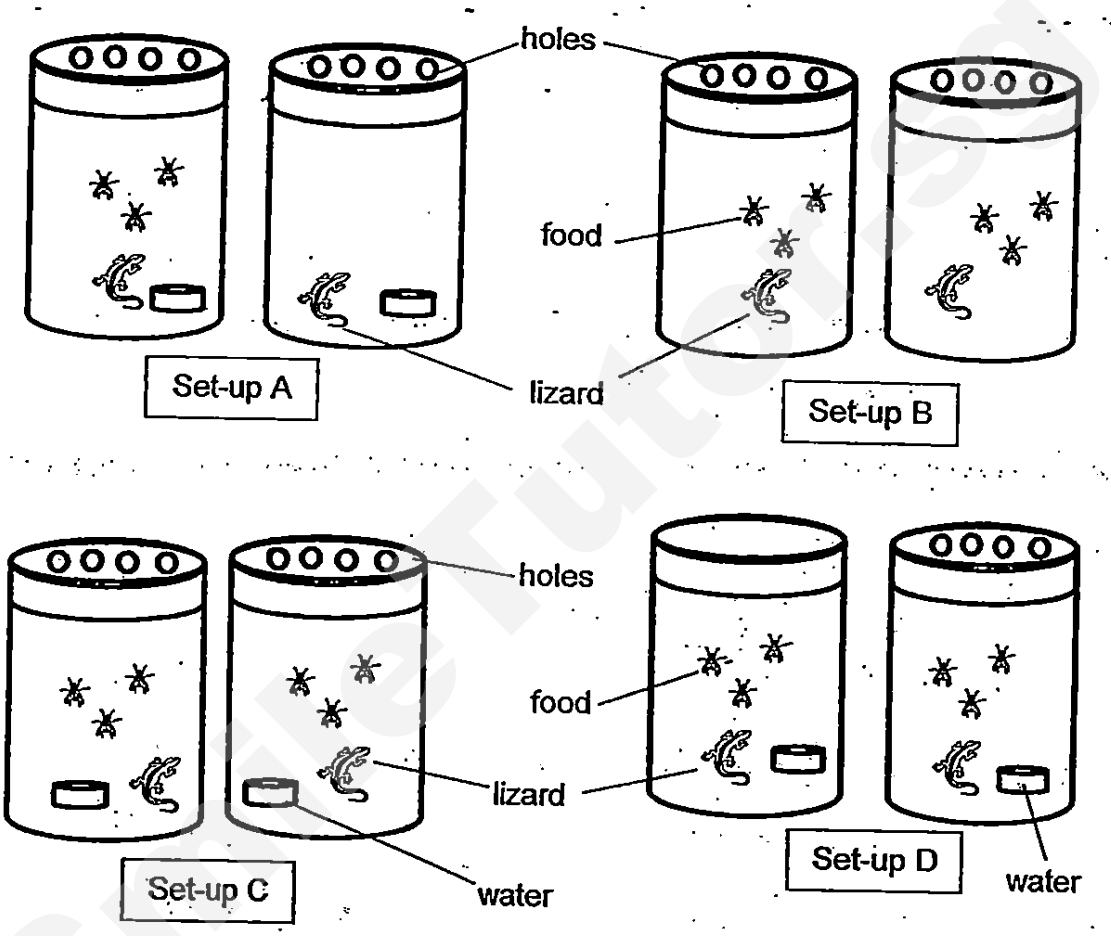
1. Write your name, index number and class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For Section A, shade your answers for questions 1 to 15 in the Optical Answer Sheet (OAS) provided.
6. For Section B, write your answers for questions 16 to 23 in the space provided in the booklet.
7. The total marks for Booklet A is 30 marks.

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For each question 1 to 15, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Mary wants to prove that living things need air to be alive.

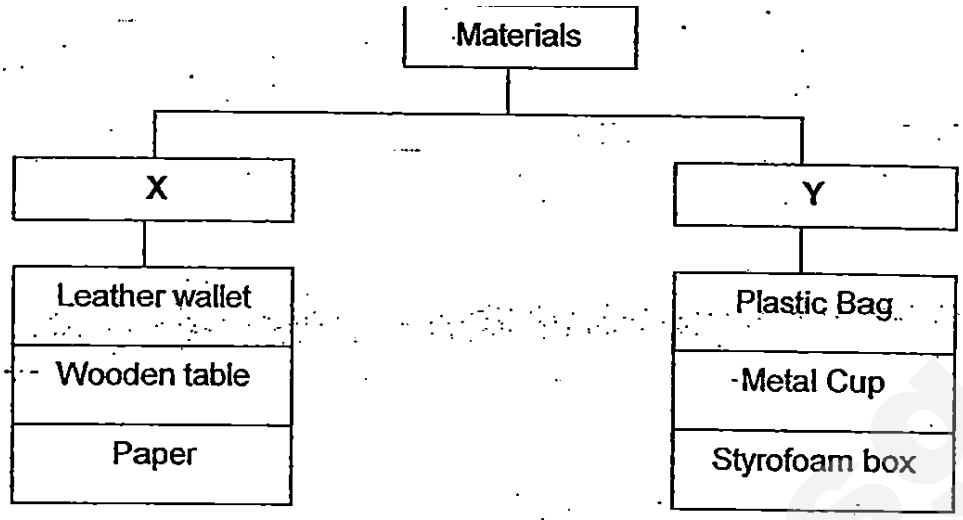


Which one of the following set-ups should Mary use for her experiment?

(1) Set-up A
(2) Set-up B
(3) Set-up C
(4) Set-up D

( )

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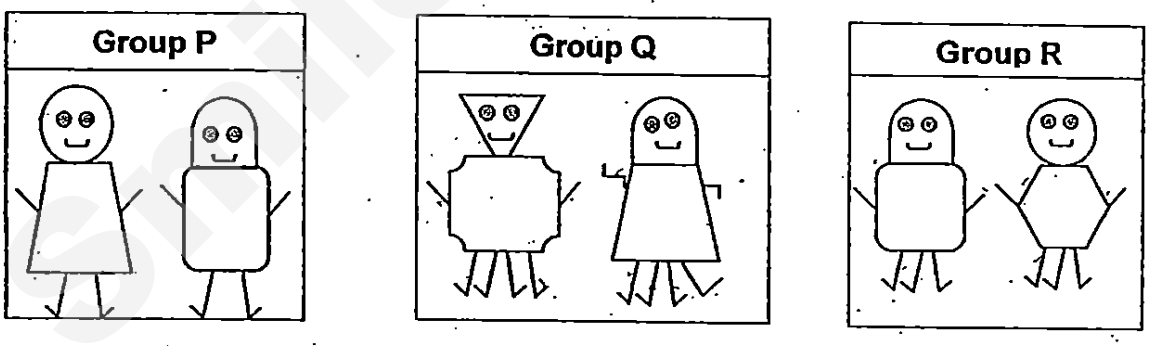


Which of the following shows the correct headings for X and Y?

	X	Y
(1)	Non - magnetic	Magnetic
(2)	Breakable	Unbreakable
(3)	Made from plants	Made from animals
(4)	Made from things which were once alive	Made from things which were never alive

( )

3. The robots below have been grouped according to their characteristics.



The robots were grouped according to the _____.

(1) number of eyes

(2) number of legs

(3) shape of the head

(4) type of body shape

( )

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4. Linda saw an animal with its young clinging to it in the jungle. Both their bodies were covered with hair. The young was feeding on milk from the adult.



Which animal group does the animal belong to?

(1) fish
(2) birds
(3) insects
(4) mammals

( )

5. Chloe caught two different organisms which can fly. One of them is an insect.
Which of the following characteristics are important to help Chloe identify that it is an insect?

A : A head
B : Two eyes
C : Two wings
D : Two antennae
E : Three body parts

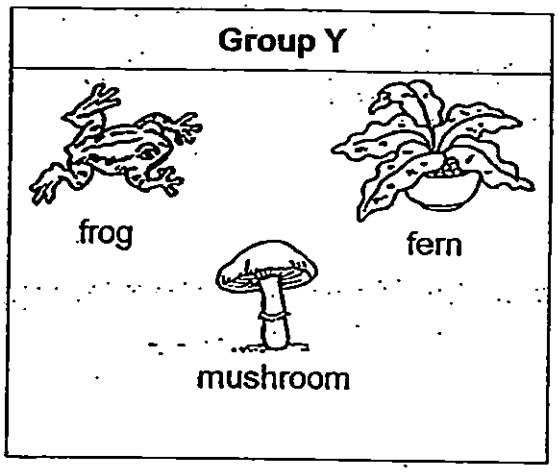
(1) A and C only
(2) D and E only
(3) A, B and C only
(4) C, D and E only

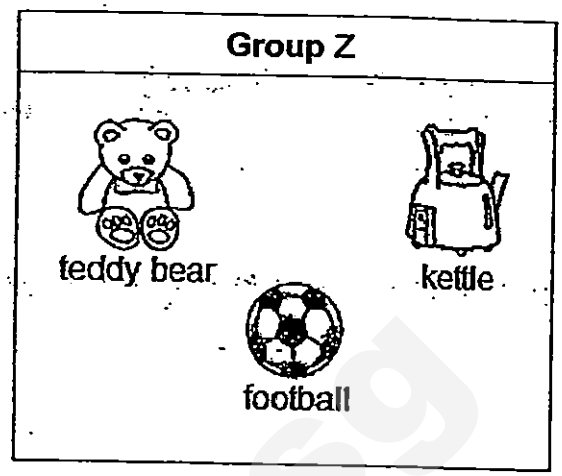
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6. Study the two groups of things shown below.





Which one of the following statements is true?

(1) The things in group Z can grow while the things in group Y cannot.
(2) The things in group Z can move while the things in group Y cannot.
(3) The things in group Y can reproduce while the things in group Z cannot.
(4) The things in group Y can make its own food while the things in group Z cannot.

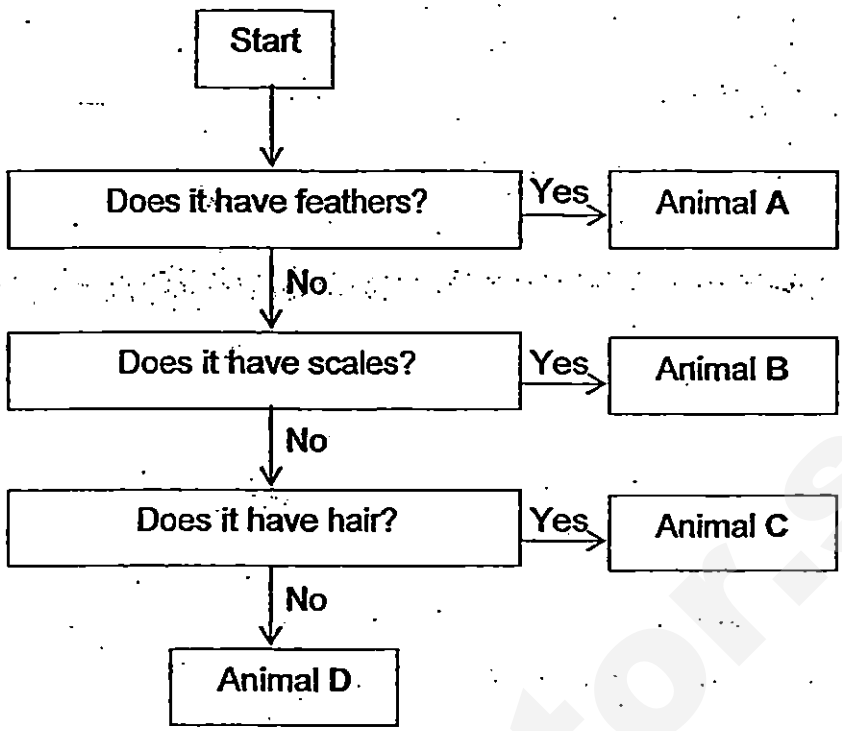
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7. Study the flowchart below carefully.



Based on the flowchart above, which animal, A, B, C or D best represents a fish?

(1) Animal A
(2) Animal B
(3) Animal C
(4) Animal D ( )

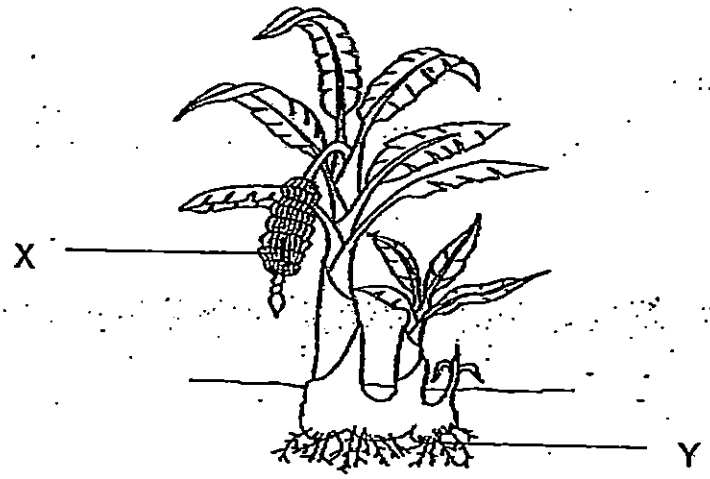
8. Which of the following statement(s) about plants is/are correct?

A : Flowering plants produce spores.
B : Flowering plants reproduce by seeds.
C : Non-flowering plants do not bear fruits.
D : Non-flowering plants reproduce by seeds.

(1) A and C only
(2) B and C only
(3) A and D only
(4) B and D only ( )

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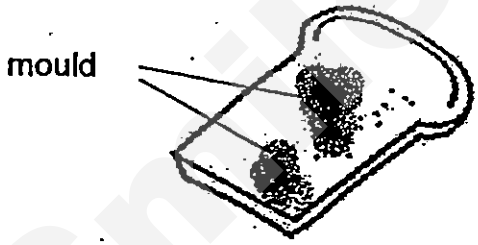


Identify parts X and Y.

	Part X	Part Y
(1)	Fruit	Roots
(2)	Stem	Leaf
(3)	Leaf	Roots
(4)	Roots	Fruit

( )

10. Study the pictures shown below.



bread



bird's nest fern

Which one of the following statements is true?

(1) Both the mould and the bird's nest fern reproduce by spores.

(2) Both the mould and the bird's nest fern can make their own food.

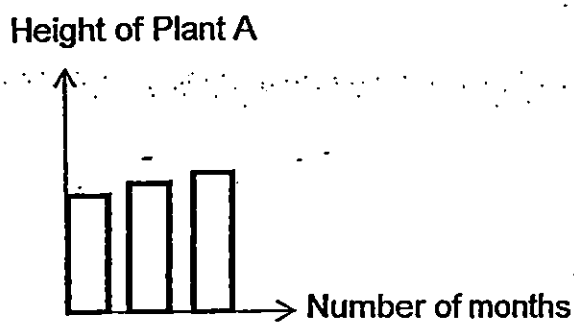
(3) The bird's nest fern need water to survive but the mould does not.

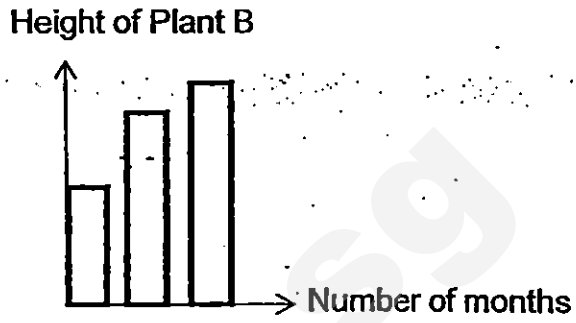
(4) The bird's nest fern does not need food to survive but the mould needs food to survive.

( )

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11. The two graphs below shows the height of 2 similar plants, A and B, over 3 months. Both plants were placed in the same location and watered regularly with the same amount of water.





Based on the graphs above, which one of the following statements is true?

(1) Only Plant A can grow.
(2) Plant A grows less than Plant B.
(3) Plant B receives less sunlight than Plant A.
(4) Plant B can make food but Plant A cannot. ( )

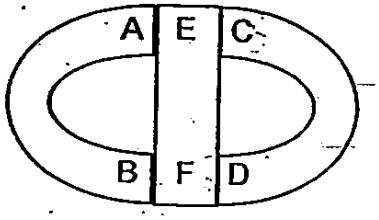
12. At which stage(s) does/do a mosquito have to stay in water?

A : Egg
B : Larva
C : Pupa
D : Adult

(1) A, B and C only
(2) B, C and D only
(3) A, B and D only
(4) A, B, C and D only ( )

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Based on the diagram above, which of the following statements is true?

(1) Poles B and C are like poles.

(2) Poles A and D are unlike poles.

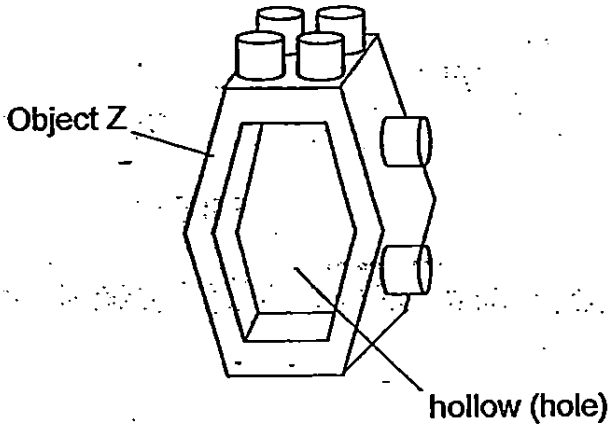
(3) Poles F and D will repel each other.

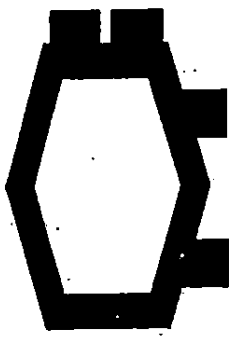
(4) Poles B and D will attract each other.

( )

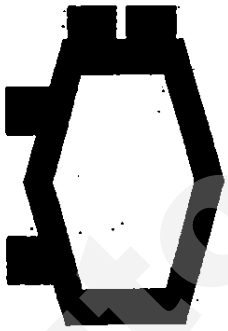
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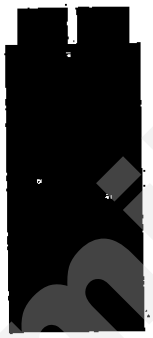




A



B



C



D

Which of the following shadows can be formed by Object Z?

(1) A and B only

(2) C and D only

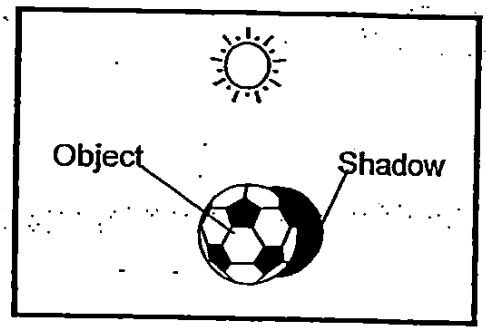
(3) A, B and C only

(4) A, B, C and D ( )

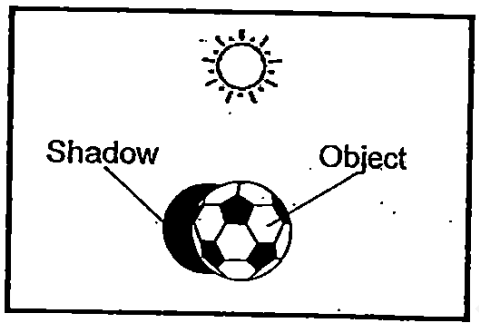
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Which one of the following diagrams shows the correct position of the sun?

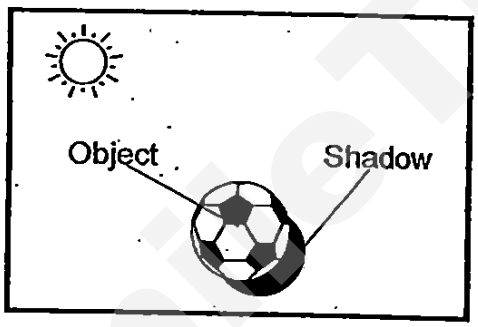
(1)



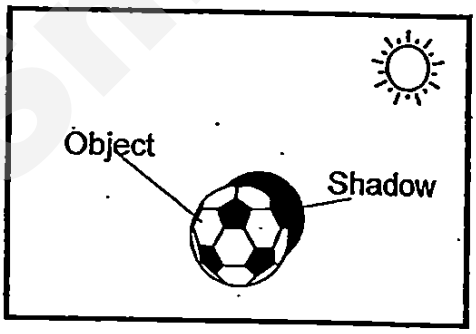
(2)



(3)



(4)



( )

~ End of Section A ~

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RIVER VALLEY PRIMARY SCHOOL
2015 Semestral Assessment 2
PRIMARY 3

SCIENCE

(BOOKLET B)

Name : _____( ) Date: 03 / 11 / 2015

Class : P3 _____ Total Time for Booklet A & Booklet B : 1 hr 30 mins

INSTRUCTIONS TO CANDIDATES

1. Write your name, index number and class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For Section A, shade your answers for questions 1 to 15 in the Optical Answer Sheet (OAS) provided.
6. For Section B, write your answers for questions 16 to 23 in the space provided in the booklet.
7. The total marks for Booklet B is 20 marks.

Booklet A		**/30**
Booklet B		**/20**
Total		**/50**
Parent's signature		

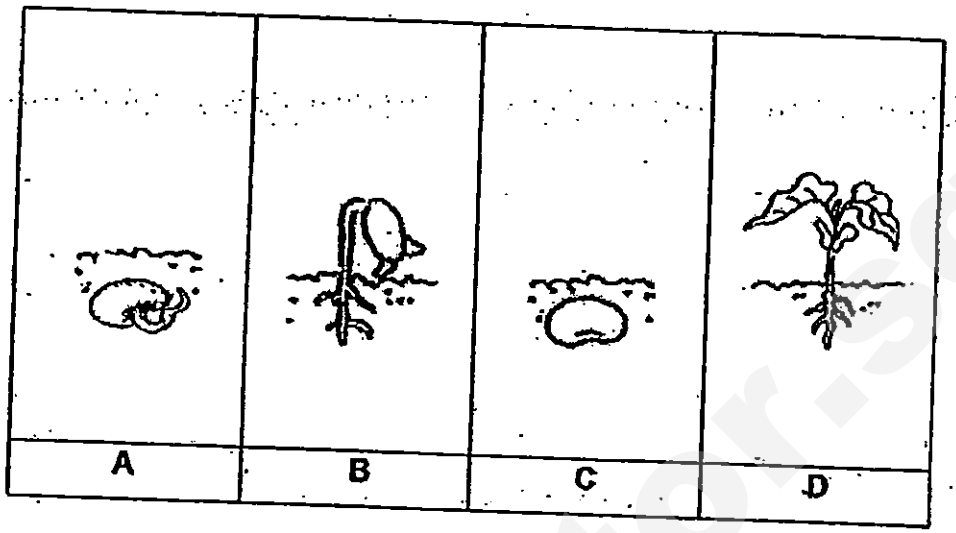
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Section B (20 marks)

Write your answers to questions 16 to 23 in this booklet.

16. The pictures below show the growth of a seed into an adult plant.



(a) Arrange the stages of growth of the seed into an adult plant in the correct sequence. [1m]



(b) James grew some seeds using dry cotton-wool. The seeds did not germinate. Explain why this happened. [1m]

_____

_____

2

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(c) James took 3 plants P, Q and R and removed parts of each plant.

The table below shows the plant parts that were removed from the three plants.

Plants	Parts that were removed
P	Roots
Q	Flowers
R	Fruits

Which of the plants will die first? Explain your answer. [1m]

_____

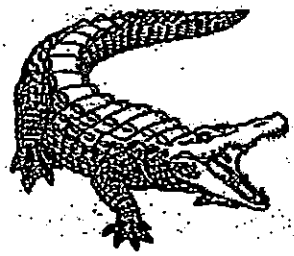
_____

	1

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17. Study the pictures below carefully.



Crocodile

(a) Give a reason why crocodiles are <u>not amphibians</u>. [1m]

_____

_____

(b) Based on the pictures below, classify the following animals into two groups. [2m]



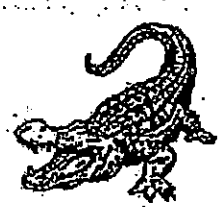
Snake



Salamander



Frog



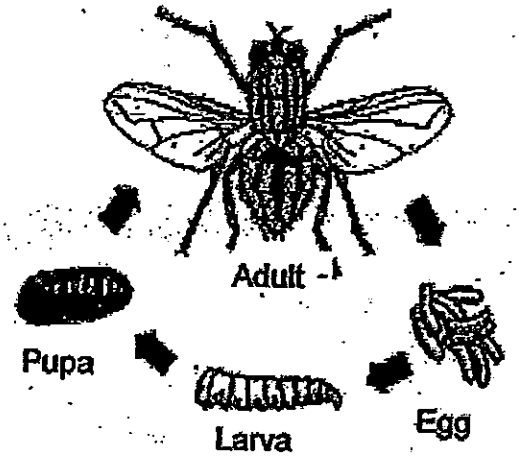
Crocodile

	3

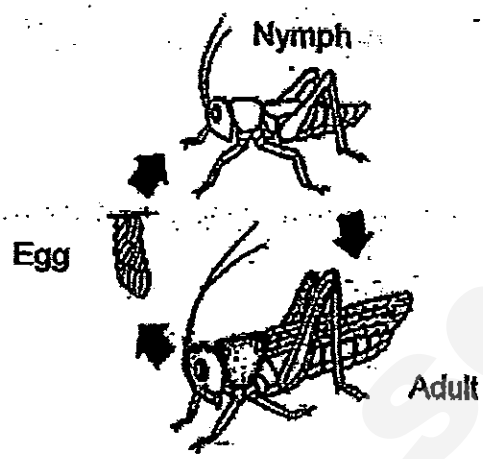
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18. The pictures below show the life cycle of 2 animals.



Life cycle of housefly



Life cycle of grasshopper

(a) Write True or False for the each of the statement shown below. [2m]

(i)	The housefly has wings at the adult and pupa stages of its life.	
(ii)	The grasshopper nymph can move from place to place while the ~~pupa~~ housefly cannot move from place to place.	
(iii)	The life cycle of a cockroach has similar number of stages as the life cycle of the grasshopper.	
(iv)	In the pupa stage of the life cycle of the housefly, it will undergo moulting.	

(b) Based on the above diagram, what is the difference between the young of both animals? [1m]

_____

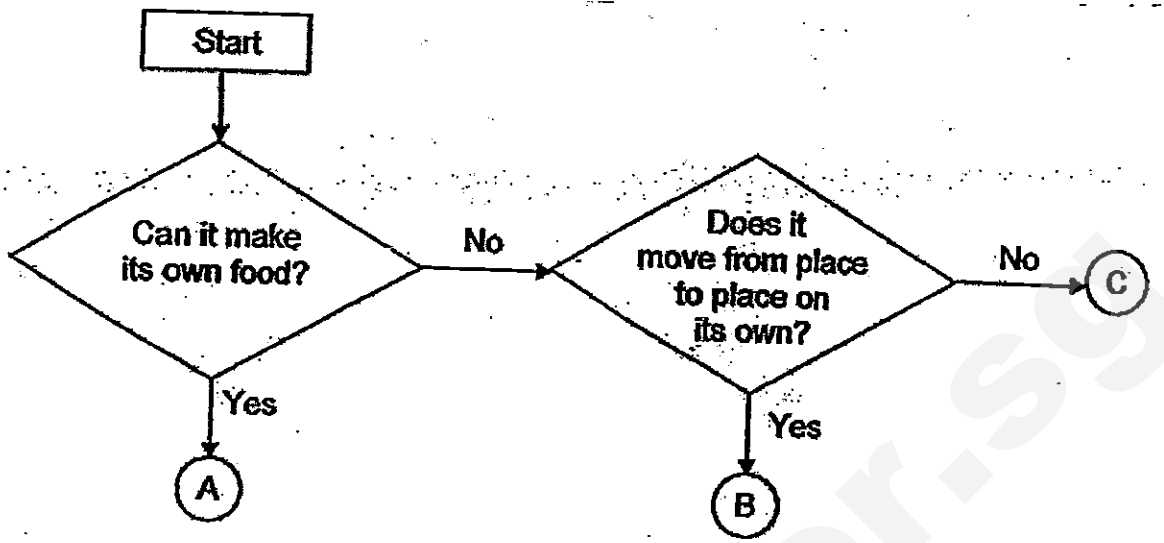
_____

	3

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19. Study the flowchart below.



(a) Which of the following living things represent A, B and C? [1m]

Plant : _____

Fungi: _____

Animal : _____

(b) Based on the flow chart, which letter, A, B or C represents a mushroom? State your reasons using the information from the flowchart. [1m]

_____

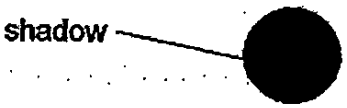
_____

2

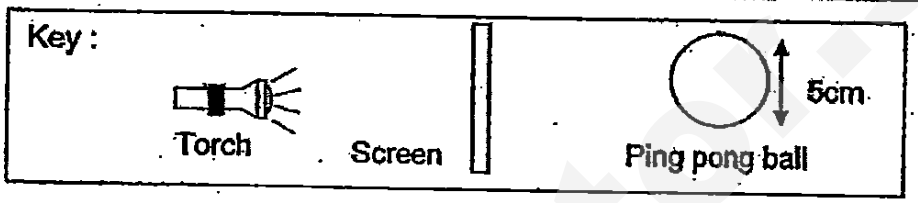
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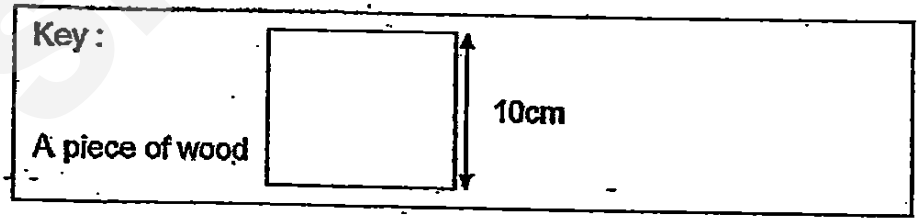
20. Sarah shone a torch at a ping pong ball and a shadow as shown below, is formed on the screen.



(a) Draw the setup of Sarah's experiment in the space below. [1m]



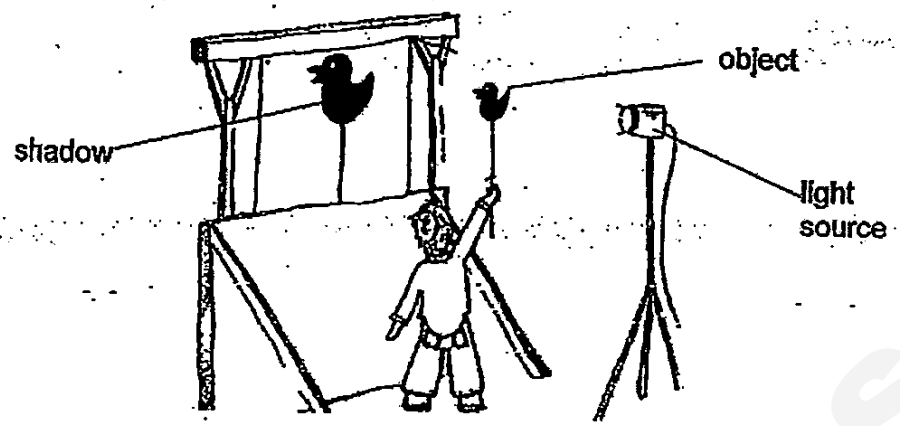
(b) Sarah then placed a piece of wood, as shown below, in front of the ping pong ball. Draw the shadow which is formed on the screen in the space below. [1m]



2

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21. Observe the shadow cast by the object as shown in the diagram below.



(a) Based on your observation of the shadow, explain the difference in the shadow when the object moves further from the light source. [1m]

(b) The diagram below shows a picture of shadow puppets.

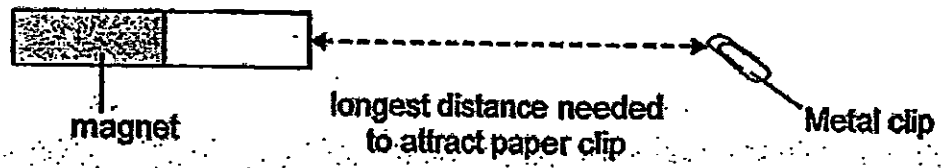


Which material (clear plastic or dark-coloured paper) is more suitable for making the puppets? Explain your answer. [1m]

	2

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22. The diagram below shows an experiment carried out by Glenn with 3 magnets, X, Y and Z.



Glenn moved the magnet slowly towards the metal clip and recorded the longest distance between the magnet and the metal clip before the metal clip was attracted to the magnet. He repeated the experiment with magnets Y and Z and recorded the results in the table below.

Magnet	X	Y	Z
Distance needed to attract metal clip (cm)	7	11	4

(a) Based on the results, which magnet X, Y or Z was the strongest?

Explain your answer. [1m]

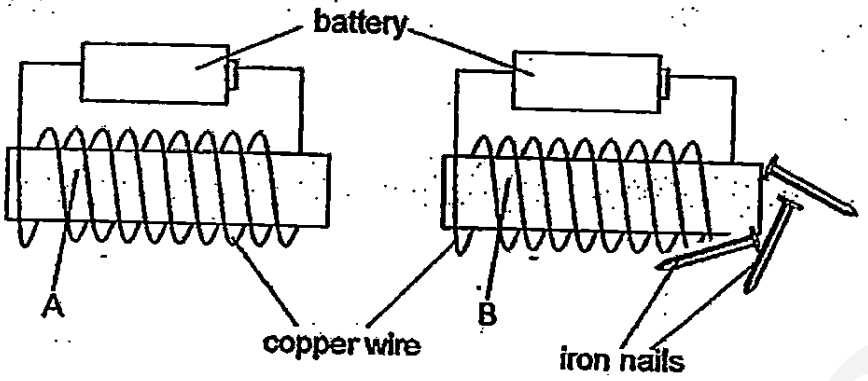
(b) When Glenn used a metal clip of another material, the clip was not attracted to the magnet. Give a reason for this observation. [1m]

	2

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23. Kumar conducted an experiment using the set-up of an electromagnet below.



For both set-ups, he used the same type of battery and copper wire. The copper wires were of the same length. The number of coils around Material A and B were also the same. However, only B attracted the iron nails.

(a) Based on the observation above, what can he conclude about material A? [1m]

_____

_____

(b) Suggest two ways that will cause material B to attract more iron nails. [2m]

i) _____

ii) _____

	3

~ End of Paper ~

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EXAM PAPER 2015

SCHOOL : RIVER VALLEY

SUBJECT : P3 SCIENCE

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	4	2	4	2	3	2	2	1	1

Q11	Q12	Q13	Q14	Q15
2	1	2	4	3

16) a) C→A→B→D

b) Seeds need air, water and warmth to germinate.

c) Plant P will die first, because the plant cannot absorb any water and nutrients.

17) a) Crocodile has an outer covering of scales while amphibians has an outer covering of skin.

b)

Reptile	Amphibian
Crocodile	Frog
Snake	Salamander

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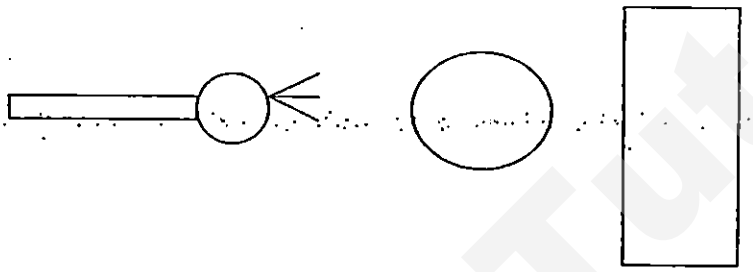
18) a) i) F ii) T iii) T iv) F

b) Based on the above diagram, the young of housefly does not have the same appearance as the housefly while young of the grasshopper has the same appearance as the grasshopper.

19)a) A , C , B

b) C. Based on the flow chart, C represents a mushroom as mushroom do not make its own food and do not move from one place to another on its own.

20) a)



b)



21) a) When the object moves further from the light source, the object become smaller and sharper.

b) Dark-coloured paper is more suitable for making the puppets, because dark-coloured paper is an opaque material so light cannot pass through it.

22)a) Magnet Y is the strongest magnet, because magnet Y can attract the metal clip further magnets X and Z.

b) The material is a non-magnetic material.

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23)a) Based on the observation, he can conclude material A is a non-magnetic material.

b)i) Put more coils.

ii) Add more battrise.

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Rosyth School
Second Semestral Examination for 2015
SCIENCE
Primary 3

Name: _____

Class: Pr 3 - _____ **Register No.** _____ **Duration: 1 h 30 min**

Date: 2 November 2015 **Parent's Signature:** _____

Booklet A

Instructions to Pupils:

1. Do not open the booklets until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 2 booklets, Booklet A and Booklet B.
4. For questions 1 to 24 in Booklet A, shade the correct ovals on the Optical Answer Sheet (OAS) provided using a 2B pencil.

*** This booklet consists of 14 pages.**

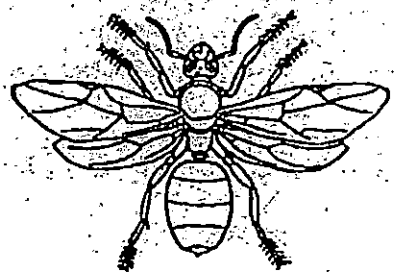
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Booklet A (48 MARKS)

For each question from 1 to 24, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

1. Amy found animal W in her garden.



animal W

Which one of the following observations would help her confirm that animal W is an insect?

(1) It has eyes.
(2) It has wings.
(3) It has 3 body parts.
(4) It has hairs on its legs.

2. Which one of the following statements is true about mould and fern?

(1) Both of them have leaves.
(2) Both of them produce flowers.
(3) Both of them make their own food.
(4) Both of them reproduce from spores.

3. The classification table below shows the characteristics of four things, A, B, C and D.

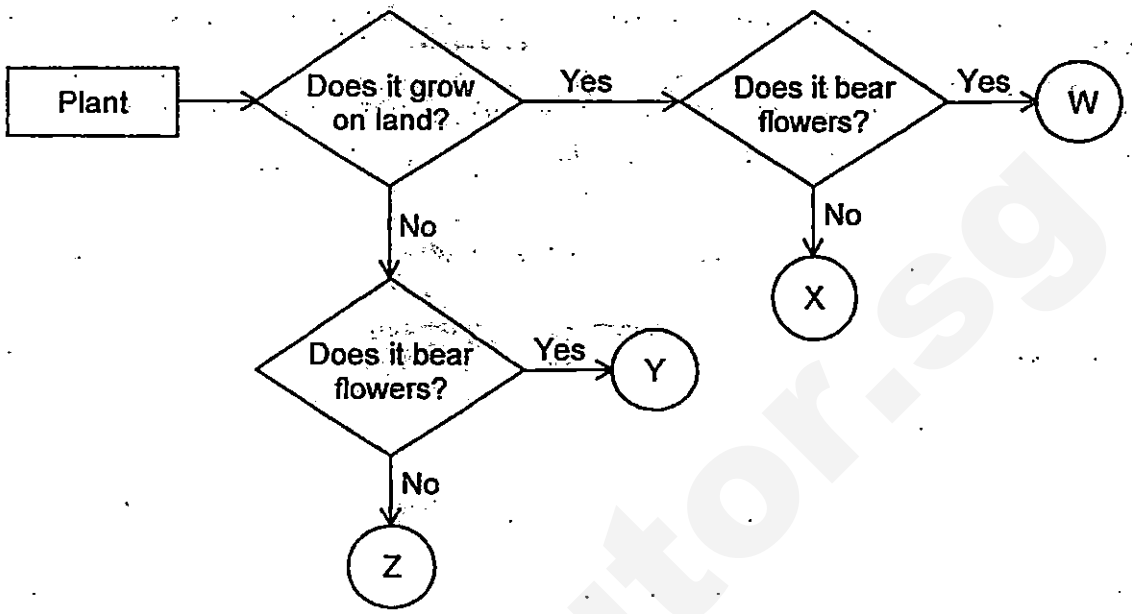
Things	Does it make its own food?	Does it move on its own?	Does it change in size?
A	No	Yes	Yes
B	No	No	Yes
C	Yes	Yes	Yes
D	No	No	No

Which of the above things are most likely to be living things?

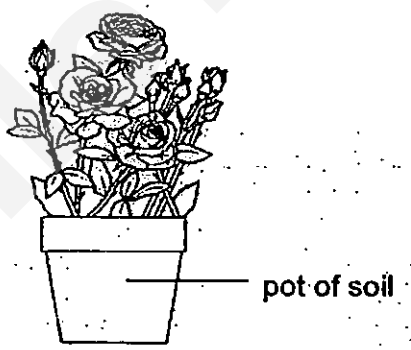
(1) A and B only
(2) A and C only
(3) B and C only
(4) B and D only

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4. Study the flow chart below carefully.



Which letter, W, X, Y or Z, best represents the plant shown below?

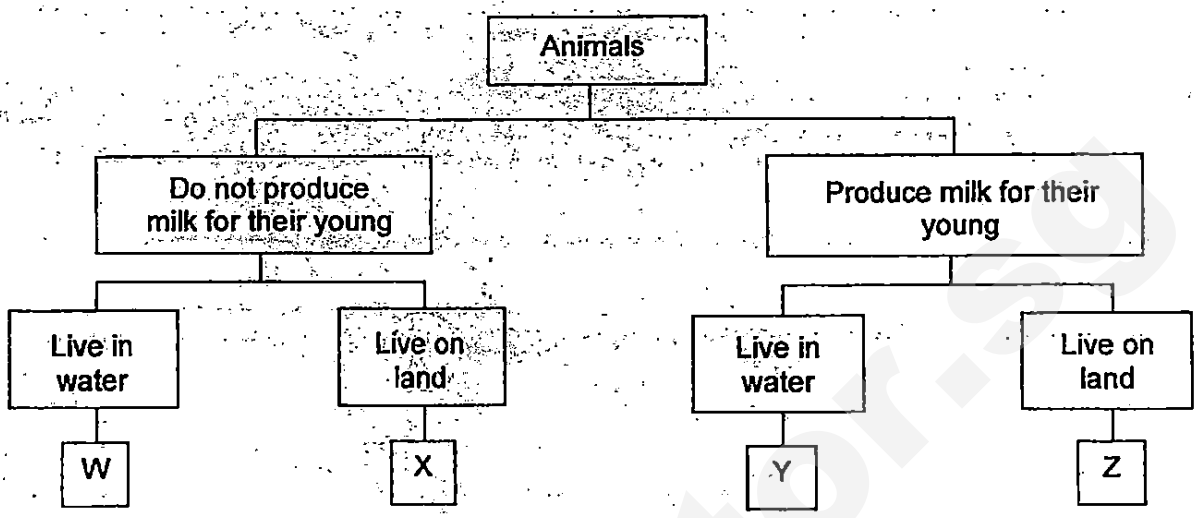


(1) W
(2) X
(3) Y
(4) Z

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5. The classification chart below shows how some animals are classified into groups W, X, Y and Z.



Sally saw an animal with the following characteristics :

- Has hair as body covering
- Can only live in water

Based on the information above, in which group should Sally classify the animal that she had seen?

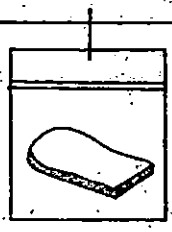
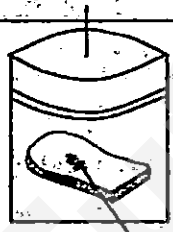
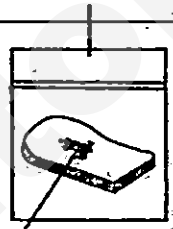
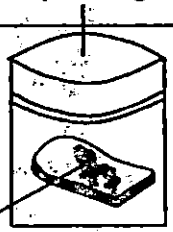
(1) W
(2) X
(3) Y
(4) Z

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6. Amy, Betty and Cindy conducted an experiment to find out more about bread mould. They used four clear, identical plastic bags and four similar slices of bread.

They toasted two slices of bread in a toaster until they were very dry and left them to cool down.

They then put each slice of bread in a plastic bag as shown below and observed the bread mould growing on the bread after 6 days. They recorded their observations in the table below.

	bread A	bread B	bread C	bread D
	toasted	toasted	not toasted	not toasted
	sealed bag	open bag	sealed bag	open bag
Amount of bread mould observed after 6 days				

bread mould on each slice of bread

Which one of the following statements is correct?

(1) Bread mould does not grow when the bag is sealed.
(2) Bread mould does not grow when the bread is toasted.
(3) Bread mould grows better when the bread is not toasted.
(4) Bread mould grows best when the bread is toasted and is put into an open bag.

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7. Which one of the following is <u>not</u> a system?

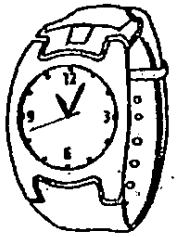
(1)



(2)



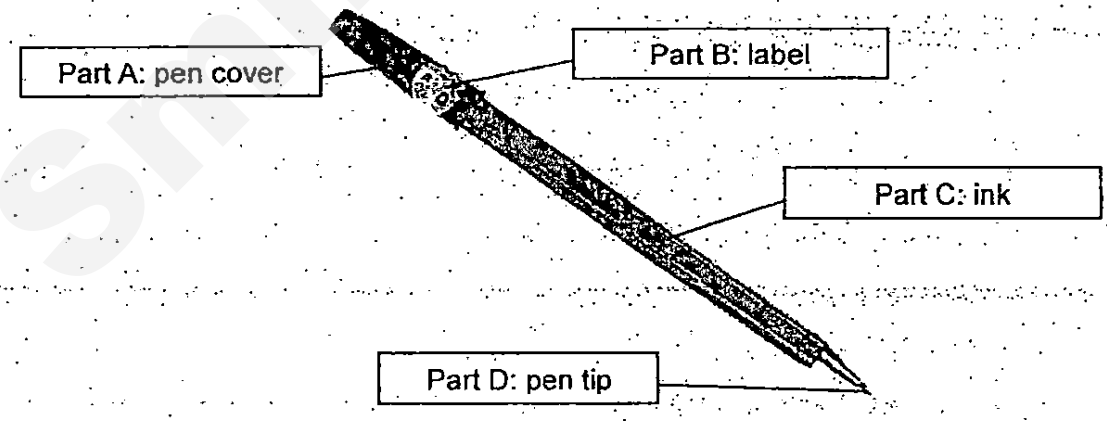
(3)



(4)



8. The diagram below shows a pen.



Which of the following parts, when removed, will not affect its writing function?

1) A and B only
2) A and D only
3) B and C only
4) B and D only

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9. Which one of the following is **not** part of the human respiratory system?

(1) nose
(2) lungs
(3) heart
(4) windpipe

10. Which two systems work together to allow Brian to walk up the stairs?

A: Skeletal system
B: Muscular system
C: Digestive system
D: Respiratory system

(1) A and B only
(2) A and C only
(3) B and C only
(4) A and D only

11. Which one of the following statements about the human digestive system is true?

(1) Digested food is absorbed into the bloodstream.
(2) The large intestine absorbs water from the digested food.
(3) Solid waste is stored in the small intestine before it is passed out.
(4) The gullet squeezes the food into smaller pieces as it is pushed down to the stomach.

12. David describes an organ in the digestive system as shown below.

> I am the longest organ in the digestive system. Digestive juices are added to the food here. I also absorb most of the nutrients from the digested food.

Which organ best represents David's description?

(1) gullet
(2) stomach
(3) small intestine
(4) large intestine

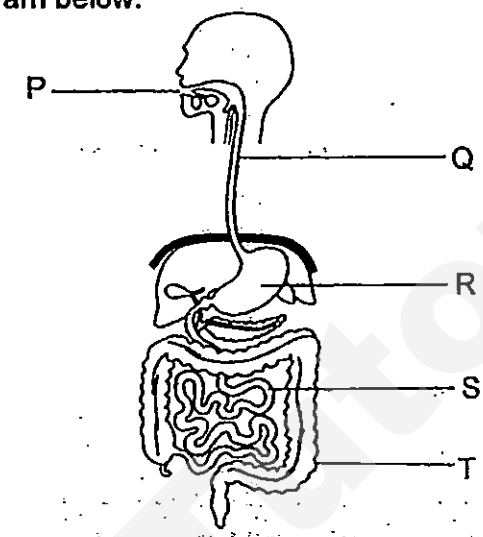
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13. Which organ is not doing its function well when someone is having difficulty in passing out the faeces?

(1) anus
(2) mouth
(3) small intestine
(4) large intestine

14. Study the diagram below.

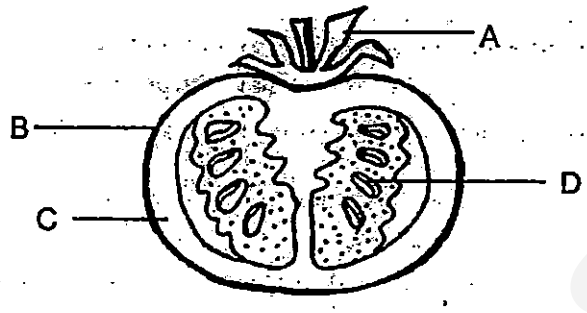


In which parts of the diagram, P, Q, R, S or T, do digestion take place?

(1) P and R only
(2) R and S only
(3) P, R and S only
(4) R, S and T only

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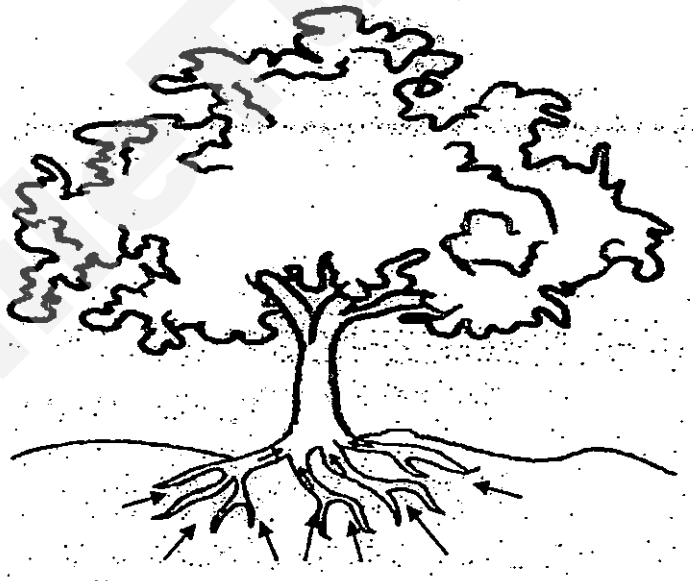
15. The diagram below shows a cut section of a fruit.



Which part of the fruit will grow into a new plant?

(1) A
(2) B
(3) C
(4) D

16. Study the picture below carefully.



What do the arrows above represent?

A: movement of food
B: movement of water
C: movement of oxygen
D: movement of mineral salts

(1) B only
(2) B and D only
(3) A and C only
(4) A, B and C only

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17. Which of the following statements are the correct functions of a stem?

A: It supports the plant.
B: It holds the plant firmly to the ground.
C: It transports food and water to different parts of the plant.

(1) A and B only
(2) A and C only
(3) B and C only
(4) A, B and C

18. Alex conducted an experiment on four similar plants kept under different conditions as shown in the table below.

	plant W	plant X	plant Y	plant Z
				
Where is it kept?	In the open	In a cardboard box	In the open	In a cardboard box
Is it watered daily?	Yes	No	No	Yes

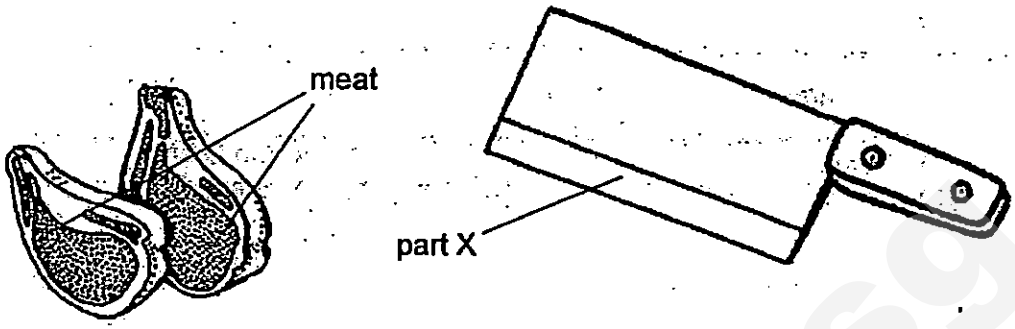
Which plant would most likely wilt first?

(1) plant W
(2) plant X
(3) plant Y
(4) plant Z

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19. Tim used part X of the knife to cut some meat as shown below.



Part X of the knife is made of metal. Which property of metal makes it suitable to cut the meat?

(1) strong
(2) flexible
(3) transparent
(4) able to float

20. Meena placed a bar magnet close to a copper coin as shown in the diagram below.



bar magnet



copper coin

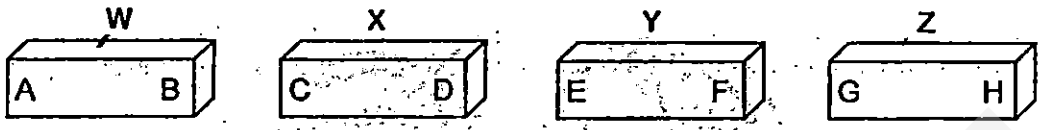
Which of the following is likely to happen?

(1) The copper coin does not move at all.
(2) The bar magnet moves towards the copper coin.
(3) The copper coin moves towards the bar magnet.
(4) The copper coin moves away from the bar magnet.

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21. Siti was given four metal bars, W, X, Y and Z. The two ends of each bar were labelled accordingly as shown below.



She brought the ends of the metal bars close to each other and noted her observations in the table below.

Ends brought close to each other	Observation
A and G	attract
B and C	repel
B and E	attract
C and F	attract
D and H	repel
G and D	attract

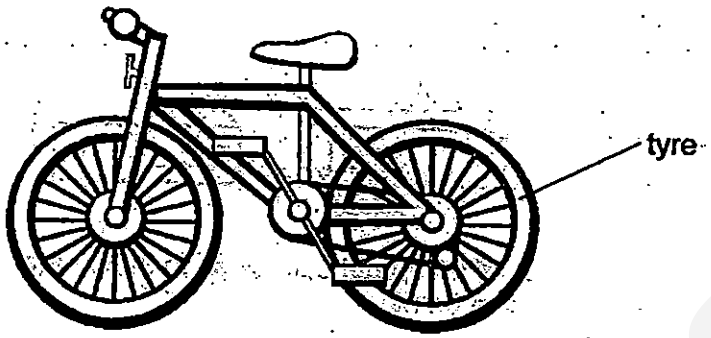
Based on the results above, which metal bar is **not** a magnet?

1) W
2) X
3) Y
4) Z

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22. The picture below shows a bicycle.



Four materials, A, B, C and D are being considered to make the tyre of the bicycle. They have different properties as shown in the table below.

Material	Properties			
	Strong	Flexible	Fragile	Waterproof
A	✓		✓	✓
B		✓		
C		✓		✓
D	✓	✓		✓

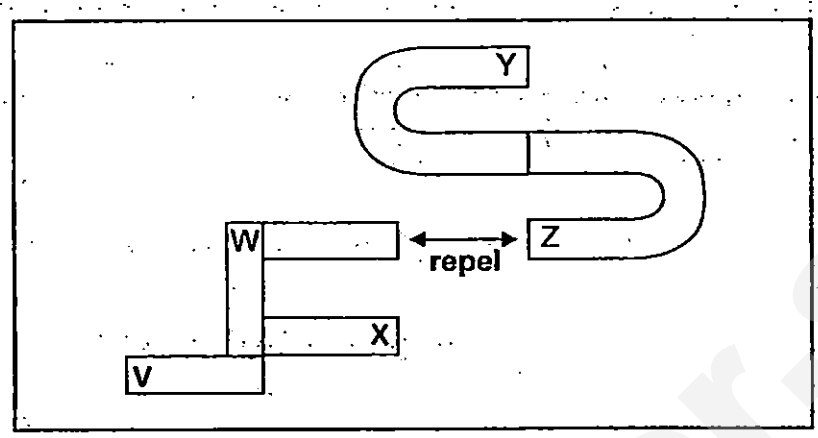
Which material is the most suitable for making the tyre of the bicycle?

(1) A
(2) B
(3) C
(4) D

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23. Chong Ming arranged four similar bar magnets and two similar U-shaped magnets as shown below.

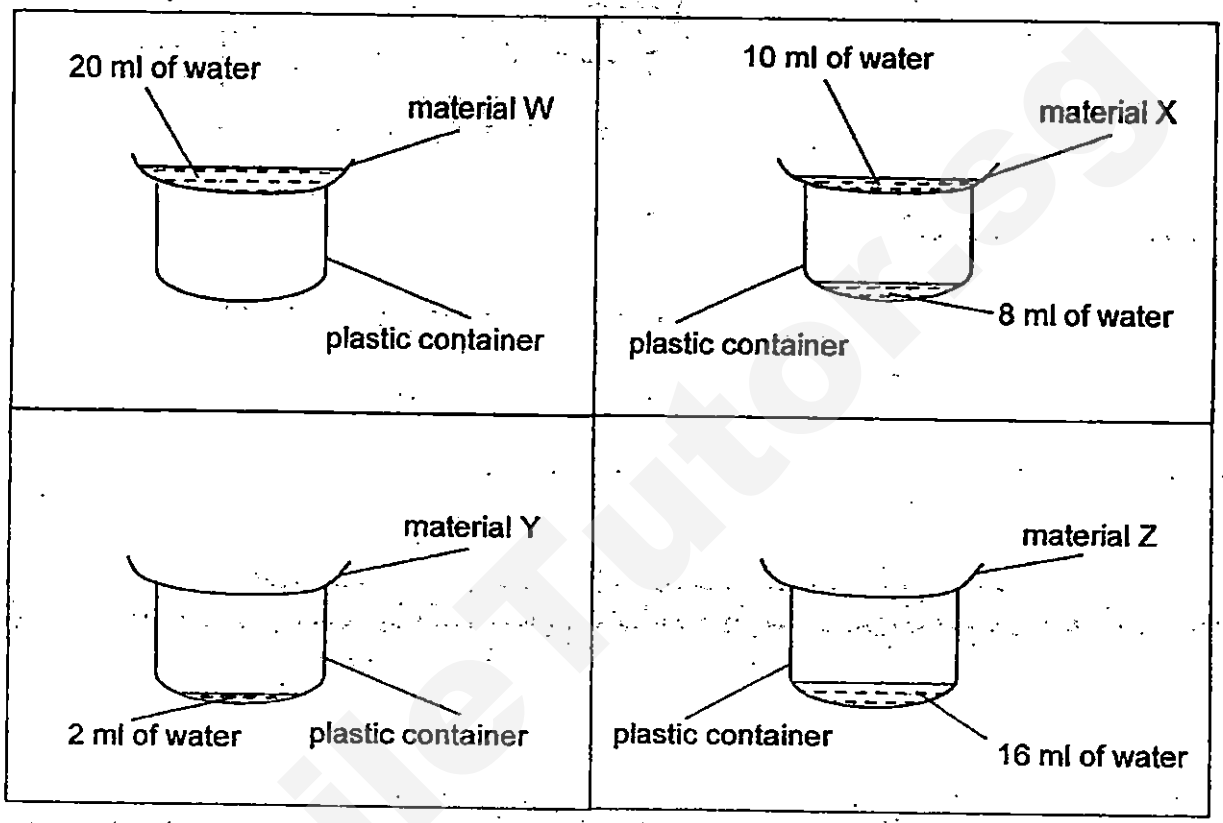


If V is the S-pole, which of the following correctly shows the poles of W, X, Y and Z?

	W	X	Y	Z
(1)	N-pole	S-pole	S-pole	N-pole
(2)	N-pole	N-pole	N-pole	S-pole
(3)	S-pole	N-pole	N-pole	S-pole
(4)	S-pole	S-pole	N-pole	S-pole

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24. Alex carried out an experiment with four sheets of different materials, W, X, Y and Z. The materials are of the same size. He put each sheet of material over a plastic container as shown below and poured 20 ml of water onto it. Five minutes later, he observed the following.



Based on the results of his experiment, which material is most suitable for making a towel?

(1) Material W
(2) Material X
(3) Material Y
(4) Material Z

End of Booklet A

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Rosyth School
Semestral Examination for 2015
SCIENCE
Primary 3

80

Name: _____ Marks:

Class: Pr 3 - _____ Register No. ____ Duration: 1 h 30 min

Date: 2 November 2015 Parent's Signature: _____

Booklet B

Instructions to Pupils:

1. For questions 25 to 34, write your answers in the spaces given in this booklet.

	Maximum	Marks Obtained
Booklet A	48 marks	
Booklet B	32 marks	
Total	80 marks	

* This booklet consists of 11 pages.

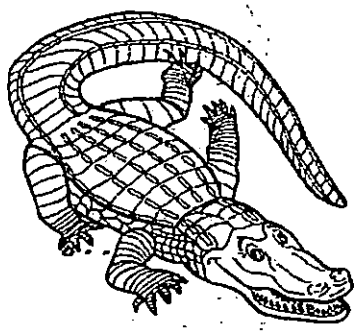
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Booklet B (32 MARKS)

For questions 25 to 34, write your answers in this booklet.

25. Look at the two animals shown below.



animal A



animal B

State two similarities and one difference between the two animals based on the following characteristics.

(i) Similarity 1 based on the number of legs: (1m)

_____

_____

(ii) Similarity 2 based on a characteristic of living things: (1m)

_____

_____

(iii) Difference based on their body coverings: (1m)

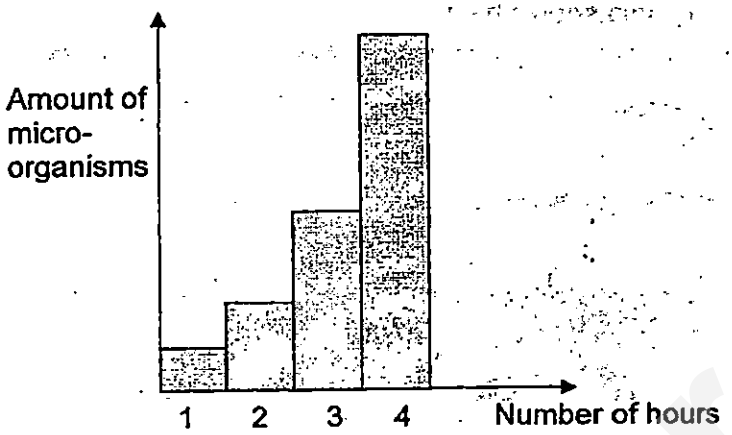
_____

_____

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26. Ahmad used a microscope to examine his dead fish. He found some micro-organisms on it. He observed that the micro-organisms multiplied very quickly. The graph below shows his findings.



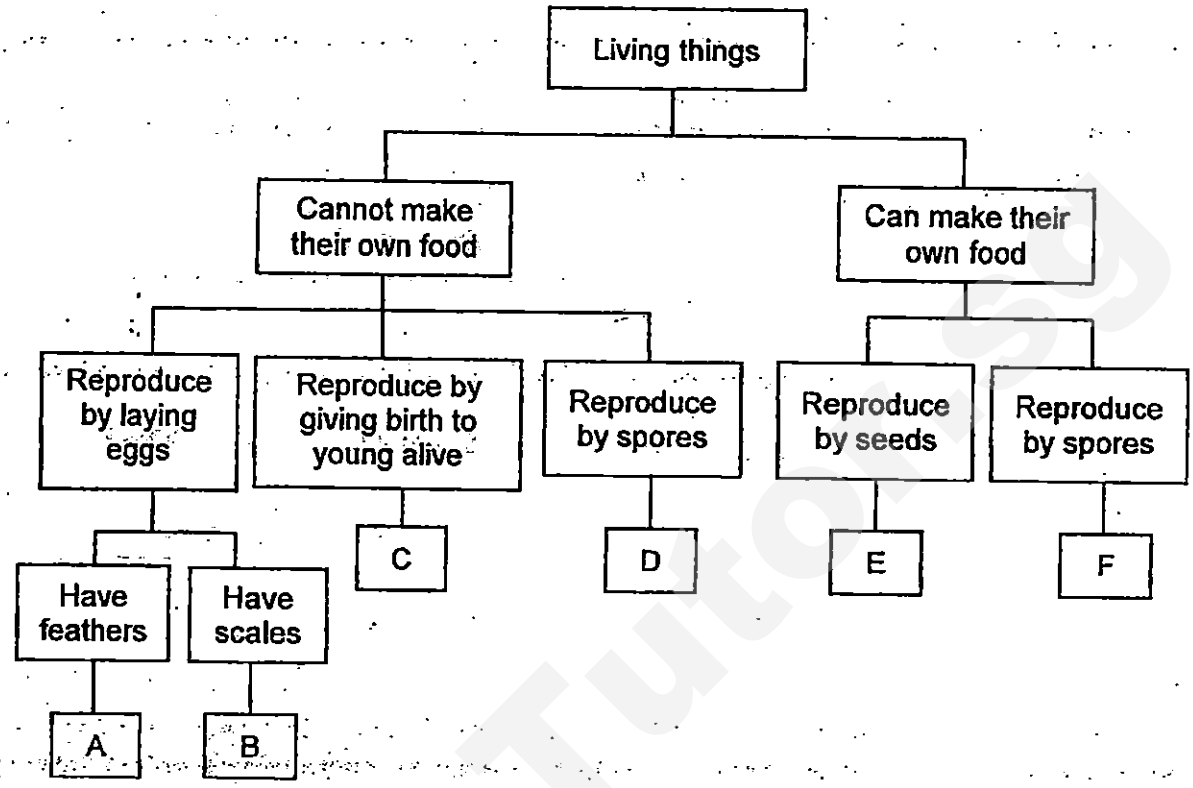
(a) From the graph above, describe the change in the amount of micro-organisms from the Hour 1 to Hour 4. (1m)

(b) Based on Ahmad's observation, which group of living things should the micro-organisms be classified under? (1m)

(c) Based on the graph, what is the characteristic of living things observed in this experiment? (1m)

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27. Study the classification chart below.



(a) Besides being able to reproduce by laying eggs and having feathers, state another characteristic special to the living things in group A. (1m)

_____

(b) Based on the chart, which of the following living things in the table below can be best represented by groups C and E? (Write C and E in the table below once only.) (2m)

Living Things			
Flowering plants	Non-Flowering plants	Mammals	Fish

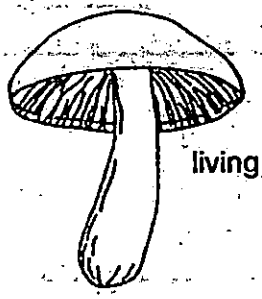
Question 27 continues on page 4

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Question 27 continues from page 3

Simon studied about living thing Z shown below.



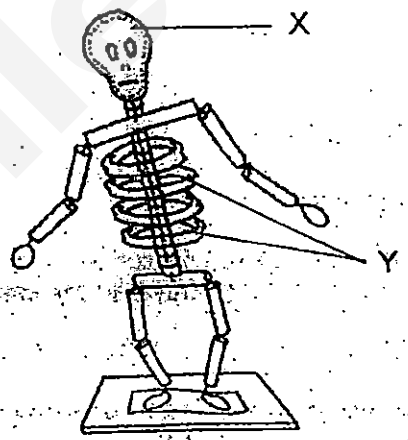
living thing Z

(c) He said that living thing Z should be placed in group D. Do you agree with him? Explain why. (1m)

_____

_____

28. Charlie made a straw model of the skeletal system as shown below.



Identify the parts labelled X and Y and state which organ they protect in a human.

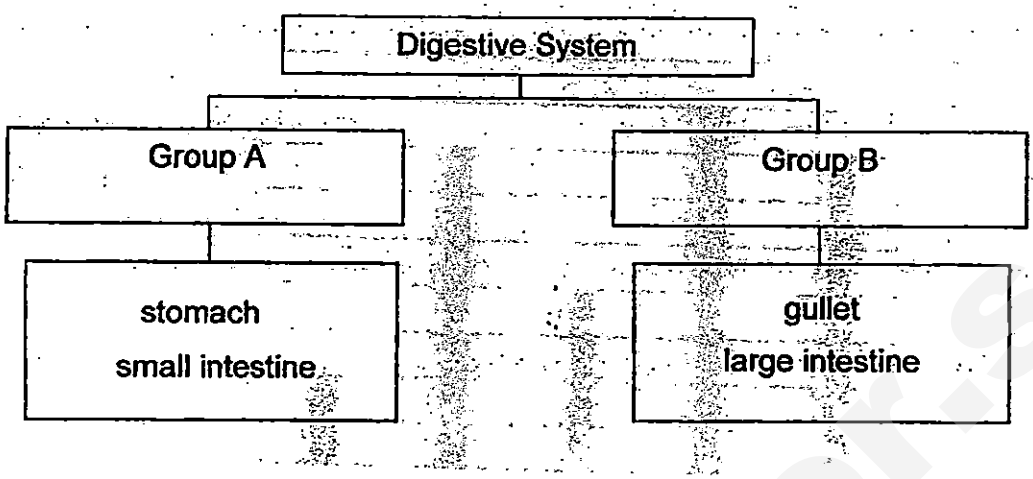
Part	Identification of labelled part	Which organ it protects
X		
Y		

(2m)

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29. Jane classified the parts of the human digestive system as shown below.



(a) Provide a suitable heading for the following:

Group A: _____

Group B: _____ (2m)

(b) Jane wanted to include windpipe in Group A. Do you agree with her? Explain why. (1m)

_____

_____

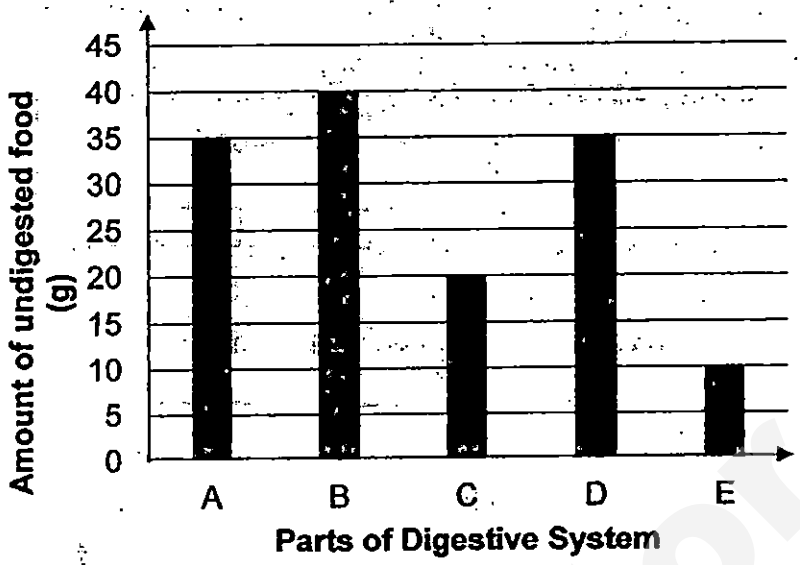
_____

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30. The graph below shows the amount of undigested food as it enters each part of the human digestive system. (The parts of the digestive system are not arranged in any order.)



(a) Based on the graph, name the parts of the digestive system. (3m)

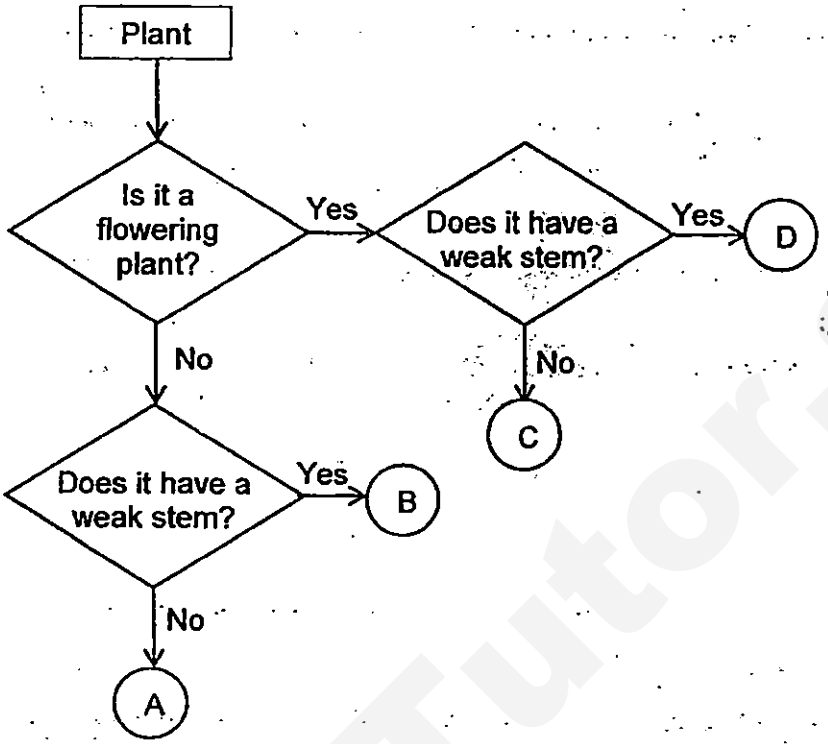
Parts	Parts of the digestive system
A	
B	
C	
D	gullet
E	

(b) What would happen to the undigested food after part E? (1m)

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31. Study the flowchart below.



(a) State the characteristics of plant A. (1m)

_____

_____

(b) State the difference between plant B and plant D. (1m)

_____

_____

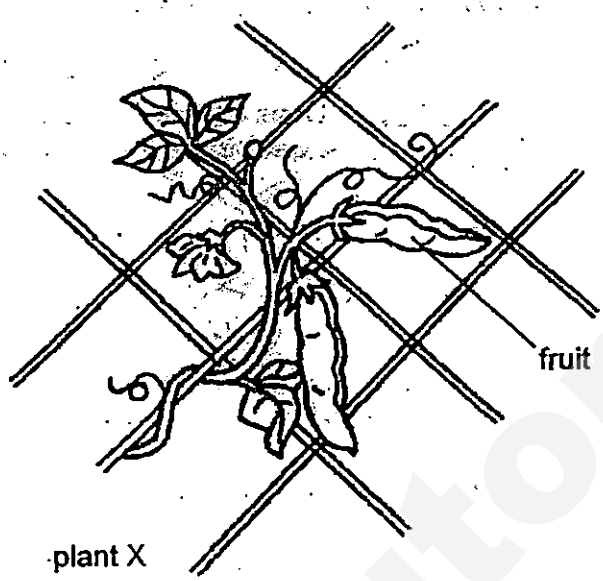
Question 31 continues on page 8

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Question 31 continues from page 7

(c) Mrs Lim bought plant X and it grew in her garden as shown below.



Based on the flowchart, which letter, A, B, C or D, would best represent plant X? Explain why. (1m)

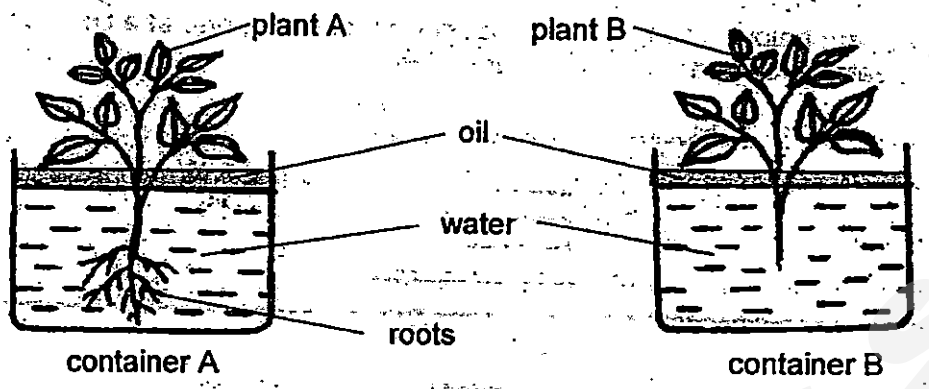
_____

_____

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32. Charlie set up an experiment as shown below.



He recorded the volume of water in containers A and B on Day 1 and Day 5. The results were recorded in the table as shown below.

	Volume of water on Day 1 (ml)	Volume of water on Day 5 (ml)
Container A	30 ml	20 ml
Container B	30 ml	30 ml

(a) Why was there no change in the volume of water in container B? (1m)

_____

_____

(b) From the experimental results above, what could Charlie infer about the function of the roots in a plant? (1m)

_____

_____

(c) What would Charlie observe about the two plants after one week. (2m)

Plant A: _____

_____

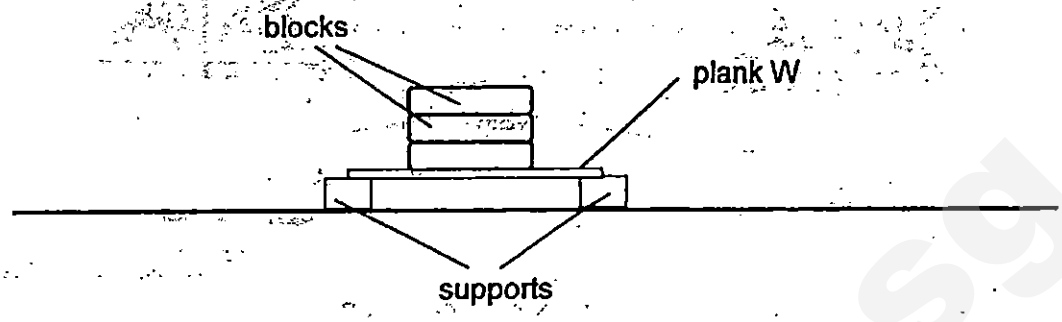
Plant B: _____

_____

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33. Mike set up an experiment to find out the properties of three planks W, X and Y which are made of different materials. He placed plank W on supports as shown in the diagram below. Then he placed blocks on plank W, one at a time, until it broke. He repeated the experiment with plank X and plank Y.



The table below shows the number of blocks that each plank could hold without breaking.

Plank	Number of blocks it could hold without breaking
W	2
X	7
Y	4

(a) Name the property of material tested in the experiment. (1m)

_____

(b) Arrange the planks W, X and Y according to their ability to hold the blocks without breaking. (1m)

[ ] , [ ] , [ ]

weakest

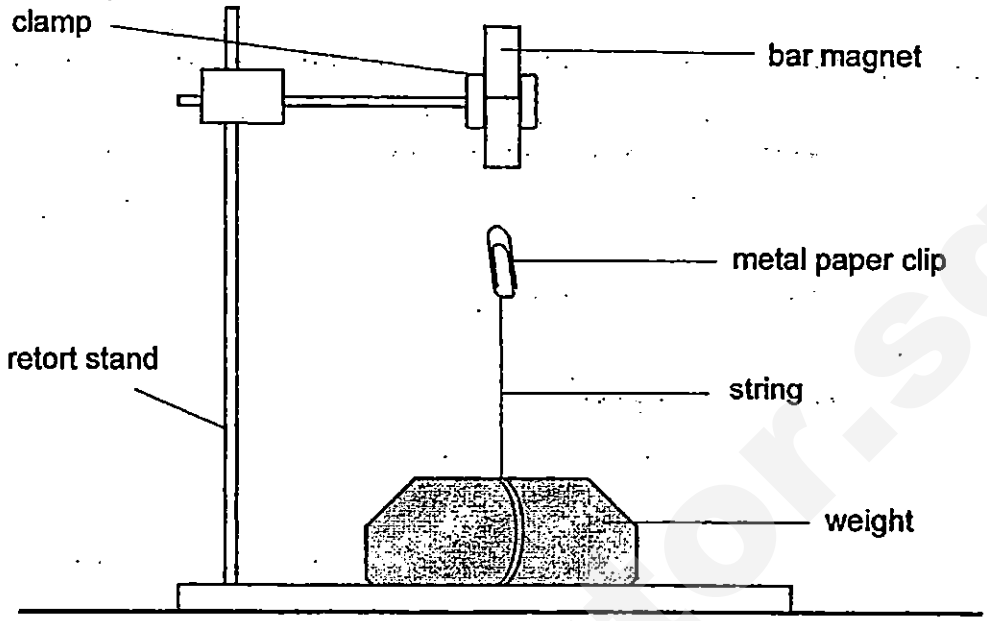
(c) Which plank W, X or Y is the most suitable for making a bookshelf? Explain your choice. (1m)

_____

_____

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34. Weilin set up an experiment as shown in the diagram below.



(a) Explain why the paper clip could float in the air as shown in the diagram above. (1m)

Weilin removed the magnet and dropped it onto the floor several times. When she placed the magnet back on the clamp, she noticed that the paper clip was no longer able to float in the air.

(b) Based on Weilin's observation, what has happened to the magnet after being dropped on the floor? (1m)

(c) Without changing the magnet or adding anything to the set-up, what can Weilin do to make the paper clip float in the air again? (1m)

End of Paper

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : ROSYTH SCHOOL
SUBJECT : SCIENCE
TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	2	1	3	3	4	1	3	1
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
1	3	4	3	4	2	2	2	1	1
Q21	Q22	Q23	Q24						
3	4	1	3						

Q25. (i) Both animal A and B have four legs. Q25. (ii) Both of them move by themselves.

Q25. (iii) Animal A has scales while animal B has skin.

Q26a. The amount of micro-organisms increased from Hour 1 to Hour 4.

Q26b. Bacteria. Q26c. Living things reproduce. Q27a. They have a beak.

Q27b. E , F , C, B

Q27c. Yes. Because it reproduces by spores and cannot make its own food.

Q28. X : Skull / Brain Y: Rib cage / Heart, lungs

Q29a. Group A : involved in digestion Group B: not involved in digestion

Q29b. No. Because windpipe is not in the digestive system.

Q30a. A: stomach B: mouth C: small intestine E: large intestine

Q30b. It will be passed out through the anus.

Q31a. Plant A is not a flowering plant and does not have a weak stem.

Q31b. Plant B is a non – flowering plant while plant D is a flowering plant.

Q31c. D. Because it has a weak stem and bears flowers.

Q32a. Plant B has no roots so no water can be absorbed. Q32b. The roots absorb water

Q32c. Plant A: It will grow. Plant B: It will wilt and die. Q33a. Strength

Q33b. W (weakest), Y , X

Q33c. X. Because it is the strongest material since it could hold the most number of blocks without breaking.

Q34a. Because the bar magnet is attracting the metal paper clips.

Q34b. The magnet lost its magnetism Q34c. Put the magnet closer to the metal paper clips.

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SINGAPORE CHINESE GIRLS' SCHOOL
SECOND SEMESTRAL ASSESSMENT 2015

SCIENCE

PRIMARY THREE

NAME: _____ ( ) DATE: _____

CLASS: PRIMARY 3 SY / C / G / SE / P

BOOKLET A

20 questions

40 marks

Total time for Booklets A& B: 1 h 25 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

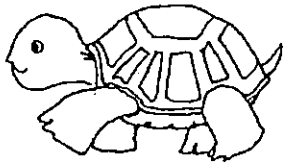
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Part I (20x 2 marks)

For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). **Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.**

1. When the tortoise is touched, it hides itself in the shell.
When food is placed near it, it sticks its head out of the shell.



Tortoise

What characteristic of living things does the tortoise show?

1) Living things can grow.
2) Living things can reproduce.
3) Living things need air, food and water.
4) Living things respond to changes around them.

2. Jane observed the different leaves as shown below. All the leaves were green.



Leaf A



Leaf B



Leaf C

Which one of the following is the function of the leaves?

1) They trap water for the plant.
2) They transport water for the plant.
3) They allow exchange of gases to take place.
4) They transport food to other parts of the plant.

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3. Which one of the following statements below about the human body system is true?

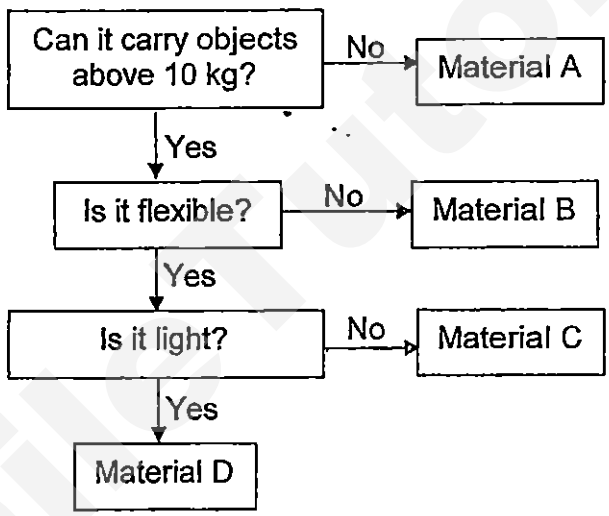
1) The digestive system transports air to other parts of the body.

2) The respiratory system helps to transport food to all parts of the body.

3) The circulatory system consists of the heart, blood and blood vessels.

4) The skeleton system does not need the muscular system to move the human body.

4. The flowchart below shows the properties of Materials A, B, C and D.



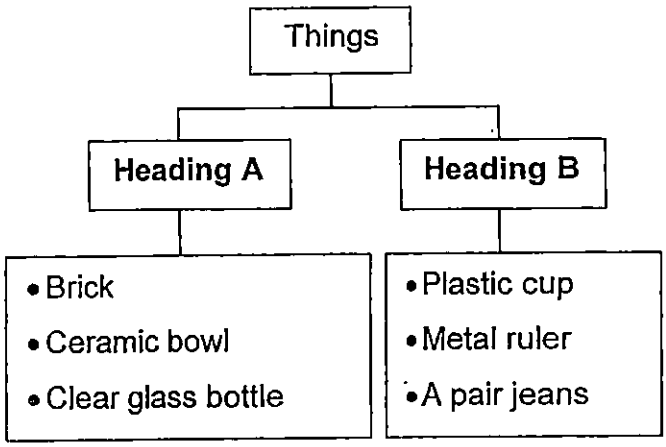
Which Material, A, B, C or D, is most suitable for making a grocery bag that is flexible, light and can carry objects above 10kg?

1) A
2) B
3) C
4) D

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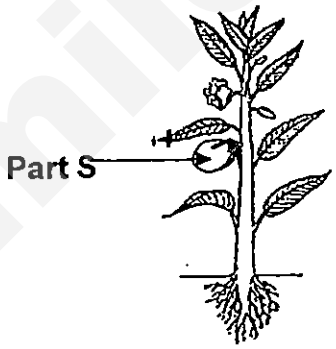
5. Jack classified the things he had into 2 groups as shown below.



How did Jack classify his items?

	Heading A	Heading B
1)	Easily breakable	Not easily breakable
2)	Allow light to pass through	Does not allow light to pass through
3)	Made from things never alive	Made from things once alive
4)	Can float on water	Cannot float on water

6. Which of the following statement(s) about Part S of the plant is/are true?



A: It makes food for the plant.

B: It helps the plant to stay upright.

C: It contains seeds for the plant to reproduce.

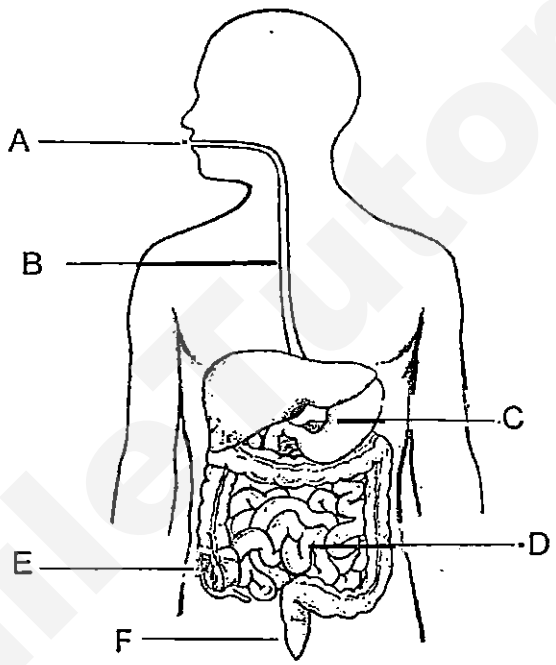
1) C only
2) A and C only
3) A and B only
4) A, B and C

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7. Which of the following organs are part of the human respiratory system?

1) Nose, windpipe, lungs
2) Lungs, gullet, windpipe
3) Mouth, windpipe, stomach
4) Mouth, gullet, stomach

8. The diagram below shows the human digestive system.



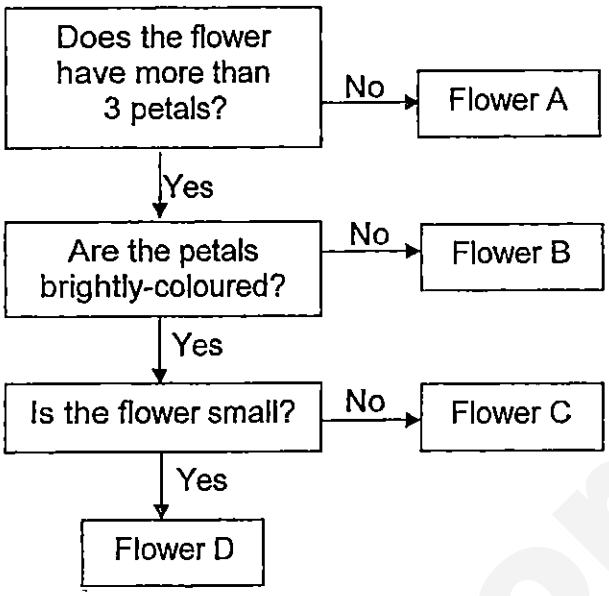
Which parts of the digestive system produce digestive juices?

1) B, E and F only
2) A, B, D and E only
3) A, C and D only
4) C,D, E and F only

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9. Study the flowchart below carefully.



Based on the above flowchart below, which Flower A, B, C or D best describes the flower below?



Characteristics:
- Has 5 petals
- Brightly-coloured petals
- Flower is large

1) A
2) B
3) C
4) D

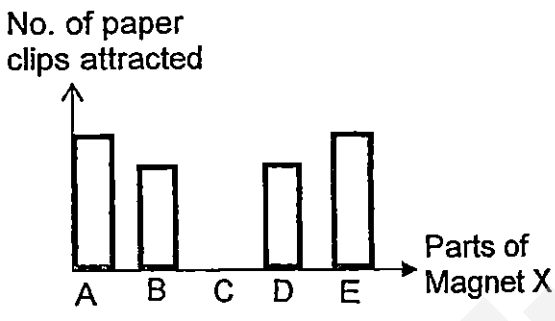
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10. Queenie recorded the number of paper clips that Parts A, B, C, D and E of Magnet X attracted in the bar graph below.

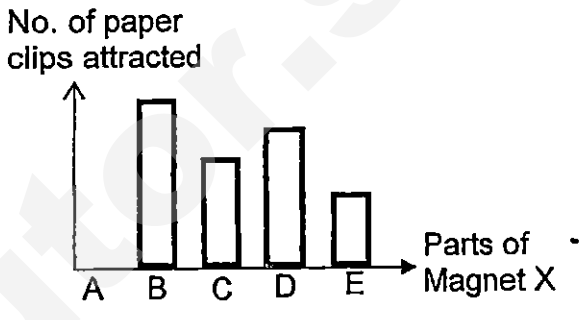


Magnet X

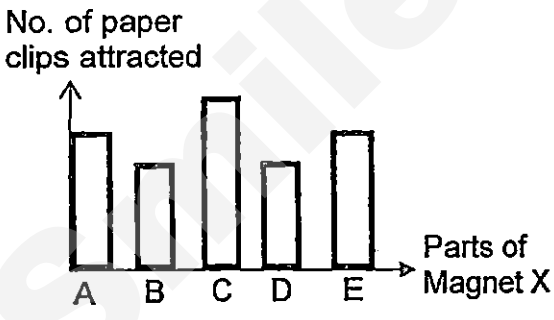
Which one of the following graphs below correctly represents part, A, B, C, D and E of Magnet X?



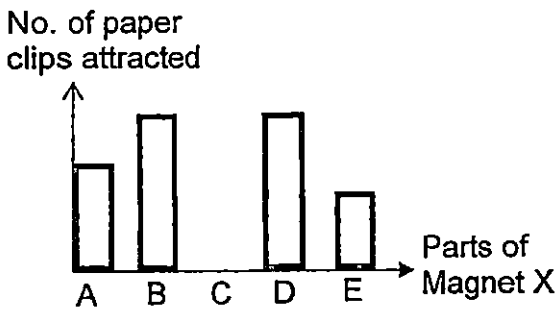
(1)



(3)



(2)



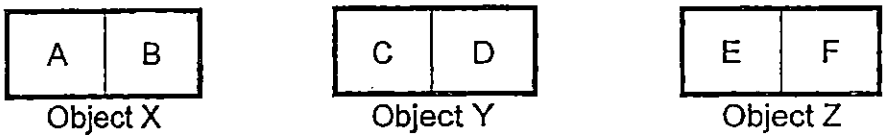
(4)

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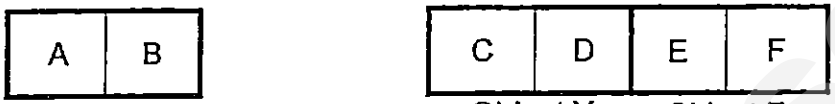
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11. The diagram below shows 3 objects, X, Y and Z.



Object X Object Y Object Z

Eva placed the objects as shown above next to each other and observed that Object X repelled Object Y but Object Y attracted Object Z as shown below.



Object X Object Y Object Z

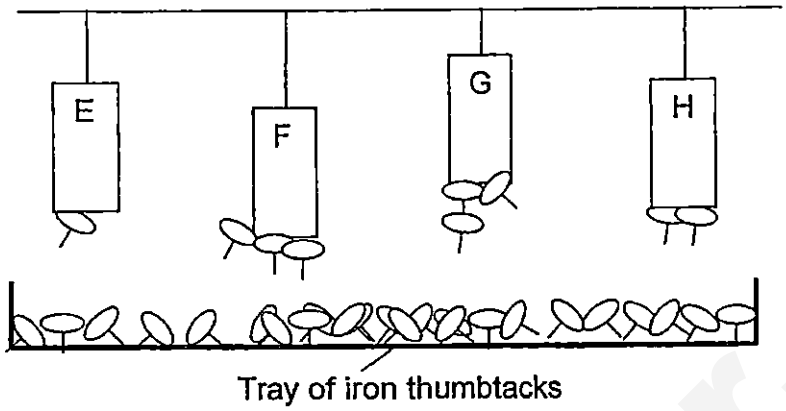
Which of the following conclusion(s) is/are correct?

1) Only Object Z is a magnet.
2) Object Z is made of plastic.
3) Object X is definitely a magnet.
4) End B of Object X will repel End D of Object Y.

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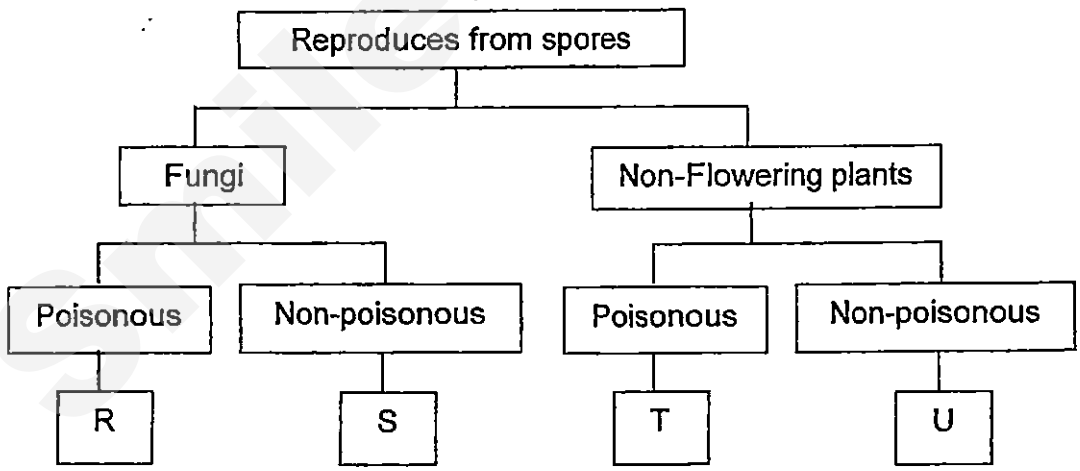
12. Stacy hanged Magnets E, F, G and H from a pole. She then placed them above a tray of iron thumbtacks and recorded her observation as shown below.



Which magnet, E, F, G or H is the strongest magnet?

1) E
2) F
3) G
4) H

13. Study the classification chart below.



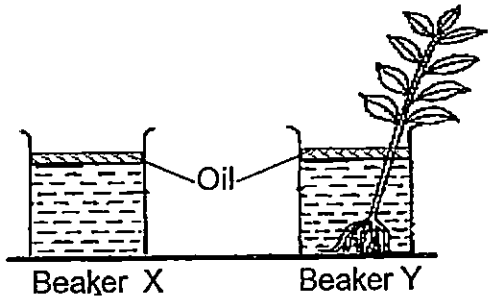
Tom found an edible mushroom. In which group, R, S, T or U does it belong to?

1) R
2) S
3) T
4) U

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14. Lily filled 2 identical containers, X and Y, with equal amounts of water. She placed a plant in Container Y only. Next, she placed the 2 set-ups in a bright place for 1 week.



	Beaker X	Beaker Y
Volume of water at the start of experiment	200ml	200ml
Volume of water after 1 week	200ml	187ml

Based on the results, which one of the following is correct?

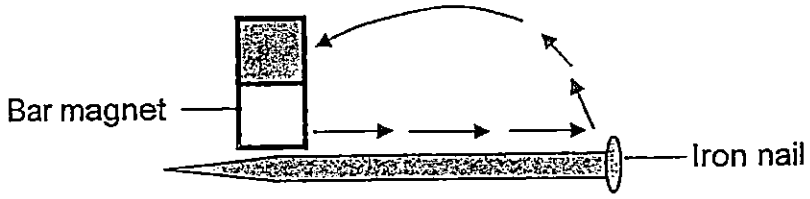
1) The roots of the plant absorbed water.
2) Beaker Y has more water left than beaker X.
3) The oil caused the water in Beaker Y to decrease.
4) The amount of water in both beakers decreased after 1 week.

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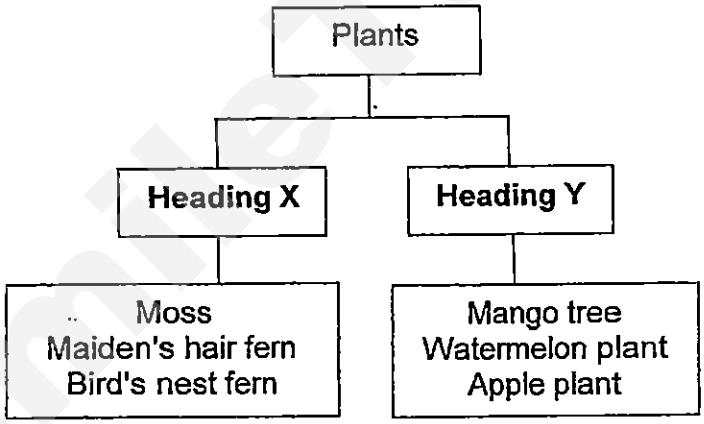
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15. Eunice used a bar magnet to stroke 4 identical iron nails, A, B, C and D. Which iron nail would be able to attract the most number of paper clips?



	Iron nail	Number of strokes
1)	A	15
2)	B	30
3)	C	45
4)	D	60

16. Allan classified the following plants into 2 groups as shown below.

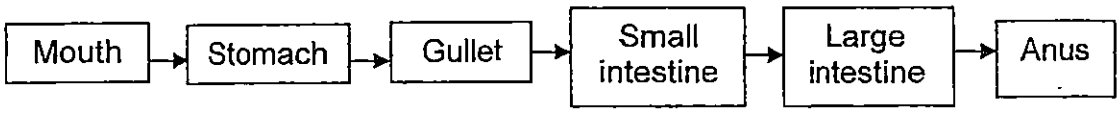


Which of the following correctly represents headings X and Y?

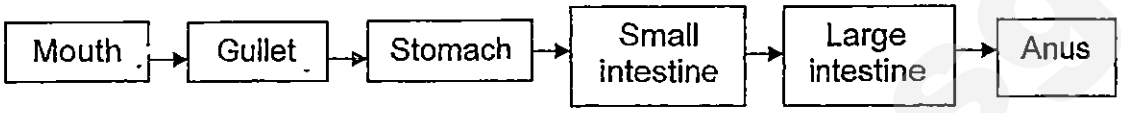
	Heading X	Heading Y
1)	Reproduce by spores	Reproduce by seeds
2)	Cannot make food	Can make food
3)	Land plant	Water plant
4)	Contains many seeds	Contains one seed

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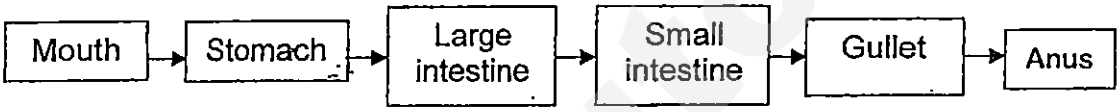
17. Which one of the following diagrams shows the correct order of a human digestive system?



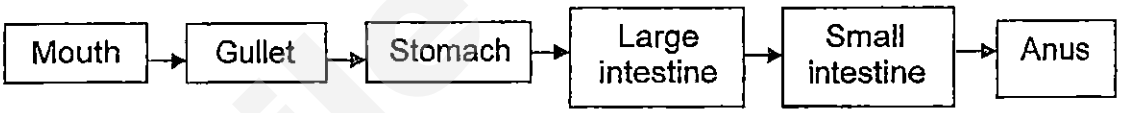
(1)



(2)



(3)

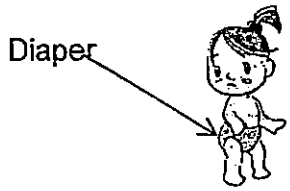


(4)

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18. Mrs Lee conducted an experiment to find out which diaper brands, W, X, Y and Z, can absorb the most water. She poured equal amount of water onto each diaper and measured the amount of water not absorbed by the diaper. The result of the experiment is shown below.

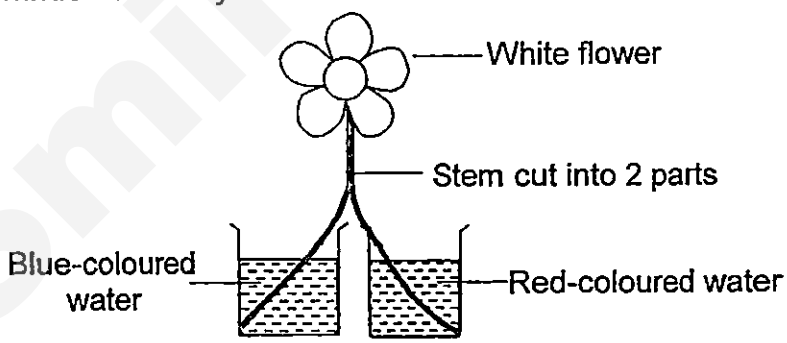


	Brand W	Brand X	Brand Y	Brand Z
Amount of water poured onto the diaper (ml)	100	100	100	100
Amount of water **not** absorbed by the diaper (ml)	10	45	0	15

Which brand of diaper can absorb the most water?

1) Brand W
2) Brand Y
3) Brand X
4) Brand Z

19. Jill cut the stem of a white flower into 2 equal parts and placed it in blue-coloured and red-coloured water as shown below. She placed the set-up near a window for 2 days.



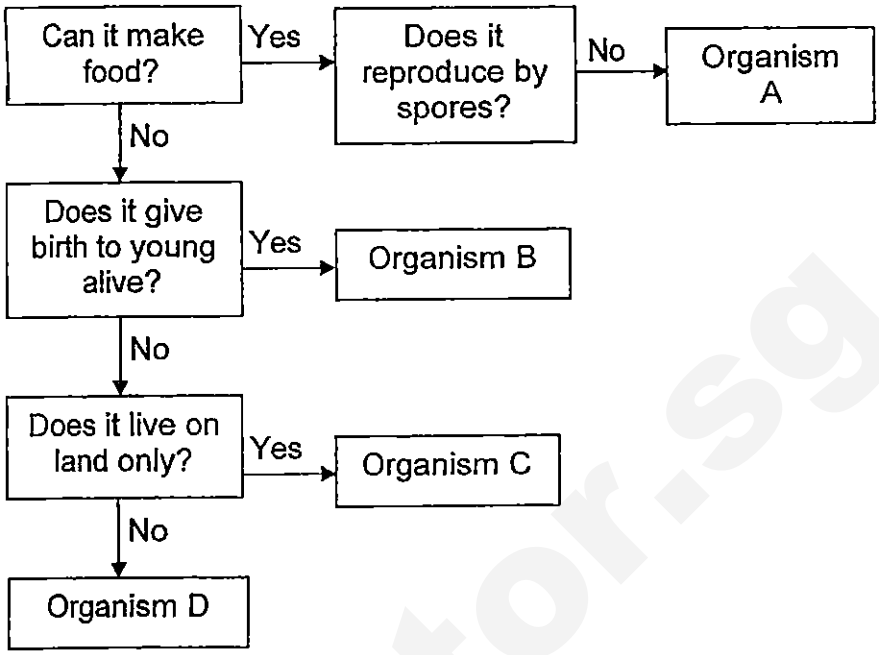
Which one of the following is most likely to happen after 2 days?

1) The flower will turn purple after 2 days.
2) The flower will remain white after 2 days.
3) Half of the flower will turn red, while the other half of the flower will turn purple after 2 days.
4) Half of the flower will turn red, while the other half of the flower will turn blue after 2 days.

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20. Study the flow chart below.



Which organism, A, B, C or D, fits the characteristics of a butterfly?

1) A
2) B
3) C
4) D

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SINGAPORE CHINESE GIRLS' SCHOOL
SECOND SEMESTRAL ASSESSMENT 2015

SCIENCE

PRIMARY THREE

NAME: _____( ) DATE: _____

CLASS: PRIMARY 3SY / C / G / SE / P

Booklet A		40
Booklet B		30
Total		70

Parent's Signature

_____

BOOKLET B

9 questions

30 marks

Total time for Booklets A& B: 1 h 25 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

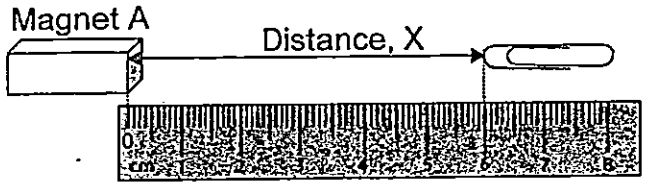
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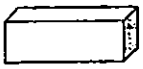
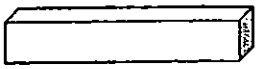
Part II(30 marks)

Answer all the following questions.

21. Harry placed Magnet A next to the ruler as shown below. He then moved a paper clip slowly towards Magnet A and recorded Distance X, just before the paper clip was attracted to Magnet A.



Harry then repeated the experiment with Magnets B and C.

Magnet		Distance X (cm)
A		1
B		4
C		2

a) Which magnet is the strongest? (1m)

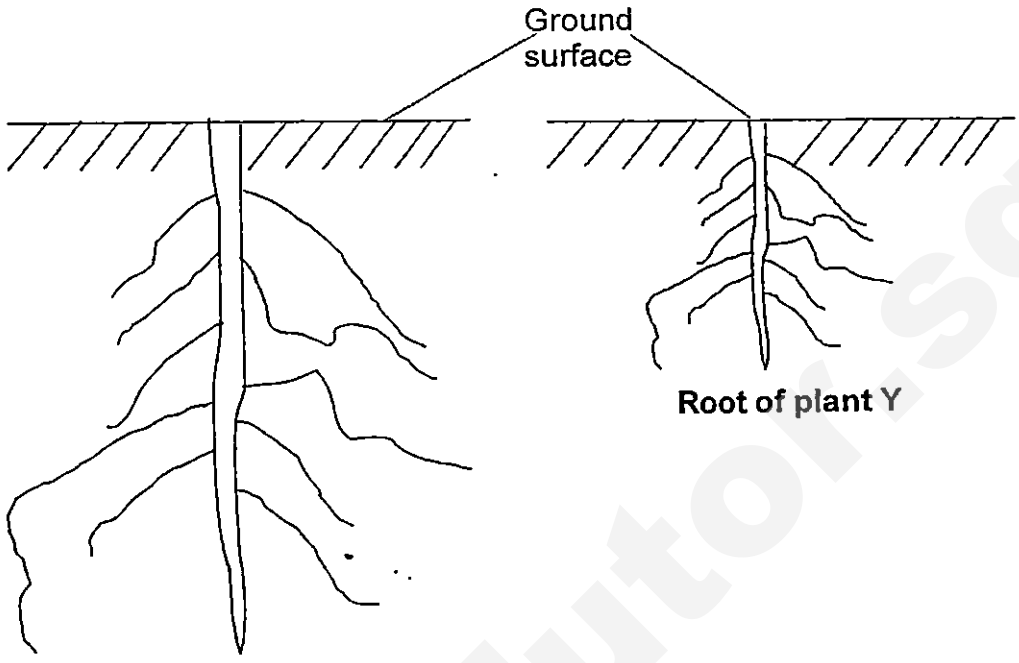
_____

b) Based on the experiment above, what can Harry conclude about the size of the magnet and its magnetic strength? (1m)

_____

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22. Irene needed to remove the underground parts of plants X and Y as shown below.
(Parts above ground are not shown.)



a) Roots take in _____ and

_____ for the plant. (1m)

b) Which plant, X or Y, is harder to remove from the soil?(1m)

_____

c) Give a reason why the plant you have chosen in (a) is harder to remove from the soil. (1m)

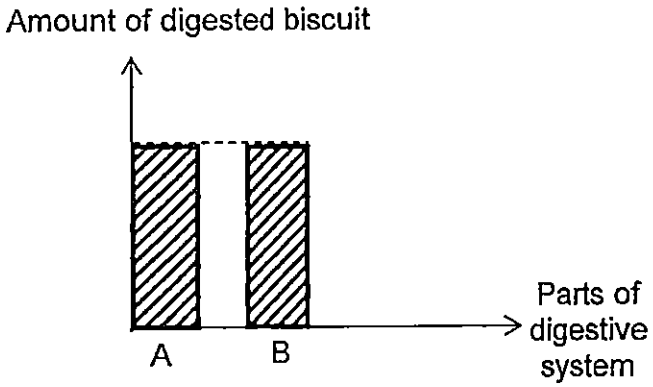
_____

3

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23. Jane ate a biscuit during recess. The amount of digested biscuit that left the different parts of her digestive system is shown in the graph below.



a) Which 2 parts of the digestive system can most likely represent A and B in the above graph? Put a tick (√) to the correct pair in the boxes below. (1m)

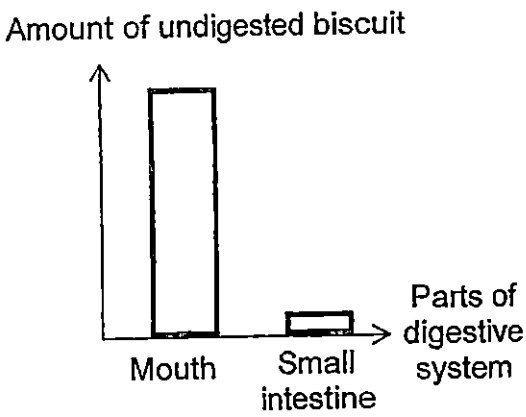
	A	B	Put a tick (√) to the correct pair
i)	Mouth	Stomach	
ii)	Gullet	Small intestine	
iii)	Mouth	Gullet	
iv)	Stomach	Large intestine	

b) Jane told her classmate that teeth are able to digest food.
Why is her statement wrong? (1m)

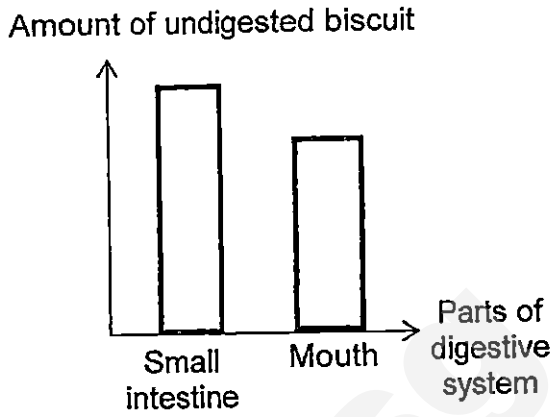
2

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c) Study the graph below carefully.



Graph X



Graph Y

Which graph, X or Y, correctly shows the amount of undigested biscuit that left the mouth and small intestine as it went through the digestive system? (1m)

_____

24. Jane took 2 of her stool samples for test and recorded the amount of water in the stool in the table below.

*Stool sample is waste which comes out through the anus.

Stool sample	Amount of water in the stool (cm^3)
A	80
B	12

a) Which part of her digestive system is mainly responsible for controlling the amount of water present in the stool? (1m)

_____

b) Which stool sample, A or B, most likely shows that Jane might be having diarrhoea. Explain your choice. (2m)

_____

_____

4

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25. Mrs Tan recorded the mass of X and Y over 8 months in the table below.

Month	Mass (g)	
	X	Y
1	300	300
2	400	300
3	500	300
4	600	300
5	700	300
6	800	300
7	900	300
8	1000	300

(a) Tick(√) in the correct column below to indicate if the mass of X or Y increased, decreased or remained the same over 8 months. (1m)

	Mass (g)		
	Increased	Decreased	Remained the same
X			
Y			

(b) Label in the boxes below which is X and Y? (1m)



A plant



A rock

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(c) State 2 differences between living things and non-living things. (2m)

(1): _____

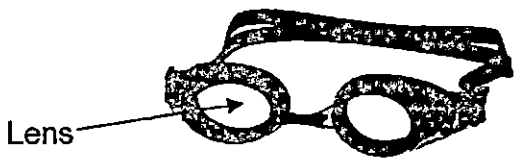
(2): _____

26. Table A below shows some properties of 3 types of materials.

Property	Material X	Material Y	Material Z
Waterproof	Yes	No	Yes
Allow light to pass through	No	Yes	Yes
Lightweight	Yes	No	Yes

(a) Based on Table A above, state 2 differences between Materials Y and Z. (2m)

Difference (1):	
Difference (2):	



Swimming goggles

(b) Which Material, X, Y or Z is the best for making the lens of a pair of swimming goggles? Give a reason for your answer based on the information in Table A (2m)

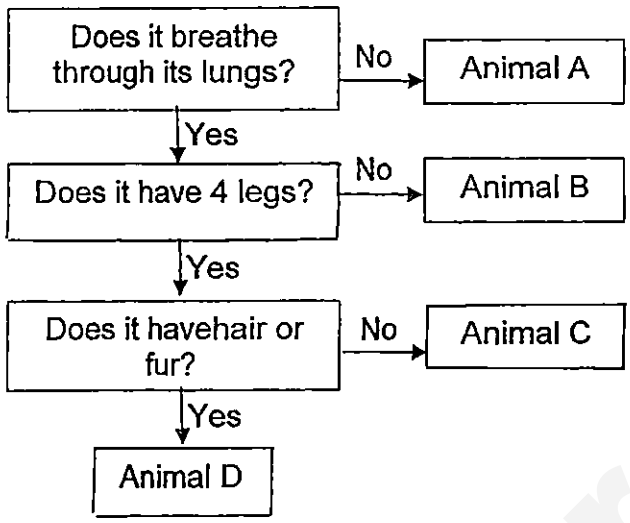
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_____

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27. Study the flowchart below carefully.



(a) In what way(s) are Animals C and D similar? (2m)

_____

_____

(b) Which animal is most likely to be a crocodile? (1m)

_____

(c) Which animal(s) breathe(s) through lungs? (1m)

_____

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4

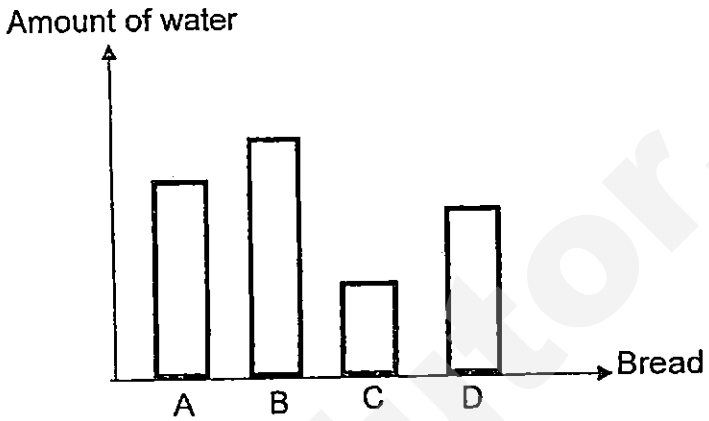
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28. Paul had 4 slices of identical bread A, B, C and D of equal size and thickness.

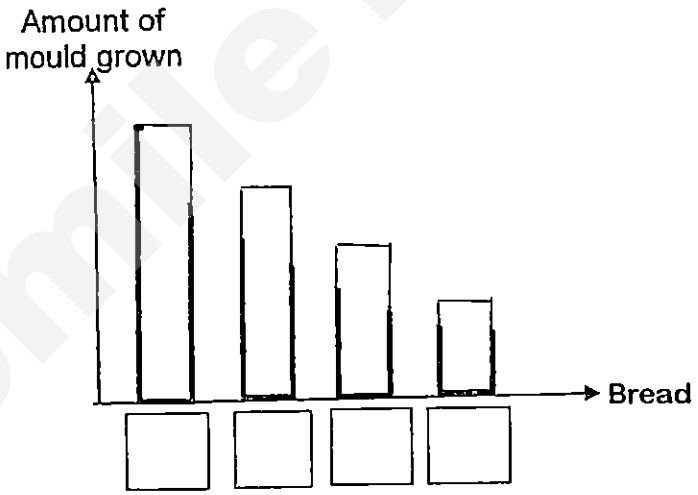


A slice of bread

He added different amounts of water to Bread A, B, C and D as shown in the graph below and placed them in his kitchen for 3 days.



a) Based on the above information, match the amount of mould that will grow on Bread A, B, C or D in the graph below. (2m)



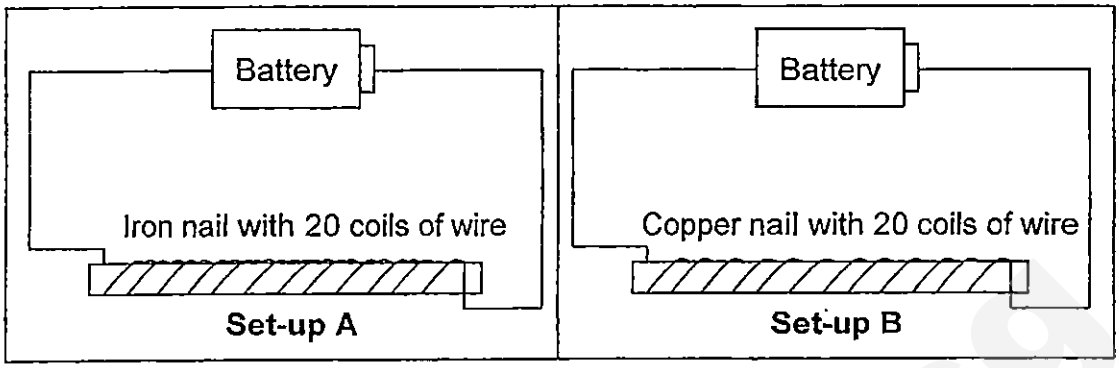
b) To make sure that mould will grow on all the slices of bread after 3 days, tick (√) where the bread should be placed.
You may tick more than one.(1m)

Freezer	Science room cupboard	Refrigerator	Classroom bookshelf

3

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29. Sherman conducted 2 experiments as shown below.



a) In which setup, A or B, will the nail become an electromagnet? (1m)

_____

b) Explain your answer in (a). (1m)

_____

_____

c) Tick (√) in the appropriate boxes to show what you think will happen to the silver coin and the steel paper clip if Sherman placed them one at a time next to an electromagnet? (2m)

Objects	Attracted to the electromagnet	Repel the electromagnet	No change
i) Silver coin 			
ii) Steel paper clip 			

END.

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SINGAPORE CHINESE GIRLS' SCHOOL
PRIMARY 3 SCIENCE SA2 2015 Answers

Part I

1) 4	6) 1	11) 3	16) 1
2) 3	7) 1	12) 3	17) 2
3) 3	8) 3	13) 2	18) 2
4) 4	9) 3	14) 1	19) 4
5) 1	10) 1	15) 4	20) 3

Part II

Qn	Suggested Answers
21a	Magnet B
21b	The magnetic strength of a magnet does not depend on its size.
22a	Water , mineral salts
22b	X
22c	The roots are longer.

23a

	A	B	Put a tick (✓) to the correct pair
i)	Mouth	Stomach	
ii)	Gullet	Small intestine	
iii)	Mouth	Gullet	✓
iv)	Stomach	Large intestine	

23b	The teeth do not have/produce digestive juices to digest food.
23c	X
24a	Large intestine
24b	Stool A. It has **more** water than Stool B.

25a

	Mass (kg)		
	Increased	Decreased	Remained the same
X	✓		
Y			✓

25b	Plant - X Rock - Y
25c	Living things need air, food and water/ can respond to changes around them/ die/ reproduce/ move on their own, but non-living things don't/ cannot.
26a	Material Z is waterproof but Material Y is not. Material Z is lightweight but Material Y is not.
26b	Material Z. It is lightweight, allows light to pass through and is waterproof.
27a	Both have 4 legs and breathe through lungs.
27b	Animal C
27c	Animals B, C and D
28a	B, A, D, C

28b

Freezer	Science room cupboard	Refrigerator	Classroom bookshelf
	✓		✓

29a	A
29b	iron is a magnetic material but copper is not a magnetic

29c

Objects	Attracted to the electromagnet	Repel the electromagnet	No change
i) Silver coin 			✓
ii) Steel paper clip 	✓		

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Temasek Primary School

Semestral Assessment 2

Primary Three

2015

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SCIENCE
(Booklet A)

Name: _____

Class: Primary 3 _____

Date: 28 October 2015

Parent's Signature: _____

60 Marks

Total Time for Booklet A and B: 1h 45 min

INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number in the spaces provided clearly.
2. Do not open this booklet until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.

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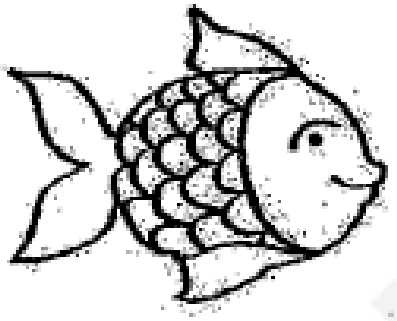
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Answer Sheet (OAS).

(60m)

1. The fish below has scales as its body covering. It swims in water and breathes through its gills.



Which of the following is another characteristic of a fish?

(1) It has 3 body parts.
(2) It feeds its young with milk.
(3) It lays eggs with a hard shell.
(4) It has fins and tail to enable it to swim.

2. Which of the following is not an example of a living thing showing a response?

(1) The battery operated robot moves on its own.
(2) The dog barked when a stranger approached it.
(3) The leaf of a Venus Flytrap plant closes when a fly lands on it.
(4) The leaves of the mimosa plant close when you touch them.

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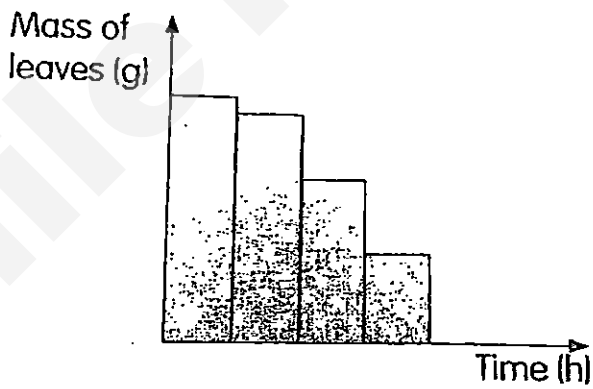
3. Charlene observed an animal and wrote down the following descriptions as shown below.

A:	It has feelers.
B:	It has wings.
C:	It has 3 body parts.
D:	It has 3 pairs of legs.

Charlene's brother concluded that she was observing an insect. Which of the above descriptions helped him make his conclusion?

(1) A only
(2) B only
(3) A and B only
(4) C and D only

4. Katelynn put some leaves in a box with holes and placed a butterfly at a particular stage of its life cycle into the box. She noted the changes in the mass of the leaves after several hours.



At which stage of the life cycle was the insect at?

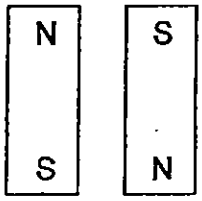
(1) adult
(2) larva
(3) pupa
(4) egg

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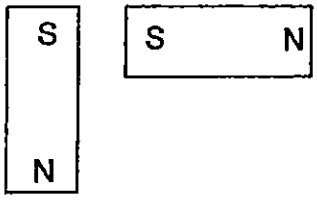
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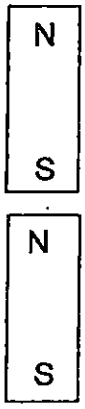
(1)



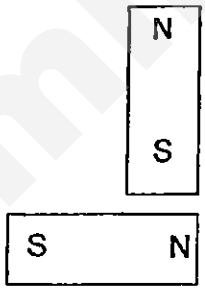
(2)



(3)



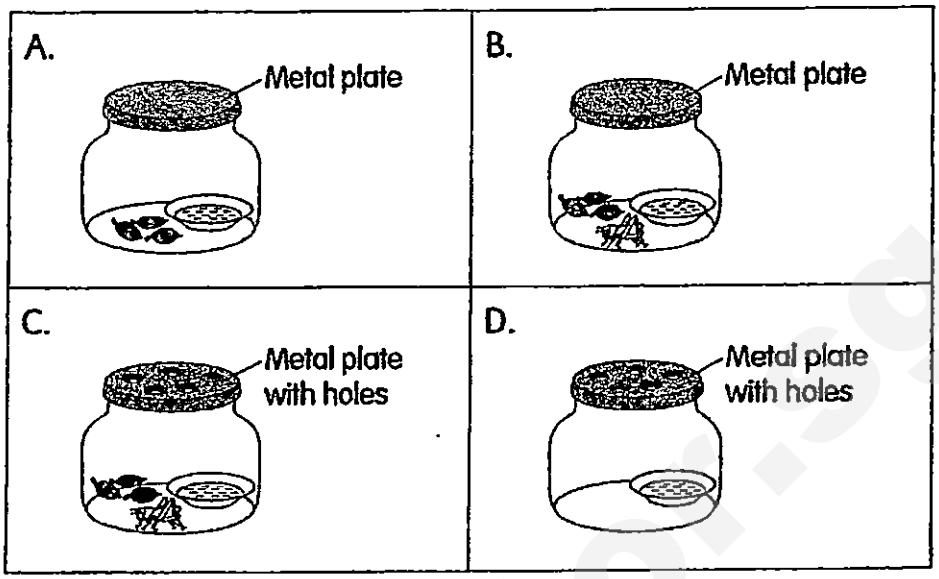
(4)



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6. Mr Lim wanted to find out if grasshoppers need air to survive. Which of the following set-ups should he use?



(1) A and C
(2) B and C
(3) B and D
(4) C and D

7. The picture below shows a tiger chasing after a deer.



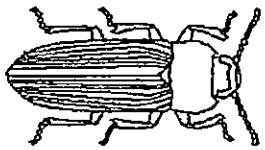
What characteristic of living things is the deer showing?

(1) Livining things can reproduce.
(2) Living things need air to survive.
(3) Living things respond to changes.
(4) Living things need food and water to survive.

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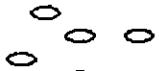
8. A, B, C and D are various stages in the life cycle of a mealworm beetle.



A



B



C



D

Which of the following correctly shows the sequence of the life cycle?

(1) B → C → A → D
(2) A → B → C → D
(3) C → A → B → D
(4) D → A → C → B

9. Three slices of white bread were cut from the same loaf and put in different locations around the house. The same amount of water was added to each slice of white bread. The table below shows the conditions for the three slices of white bread.

White bread	Number of teaspoons of water added daily	Location where the white bread was placed
R	5	On the table
S	5	Dark cupboard
T	5	Refrigerator

On which slice(s) of bread would bread mould be most likely to appear after a few days?

(1) R only
(2) S only
(3) R and S only
(4) S and T only

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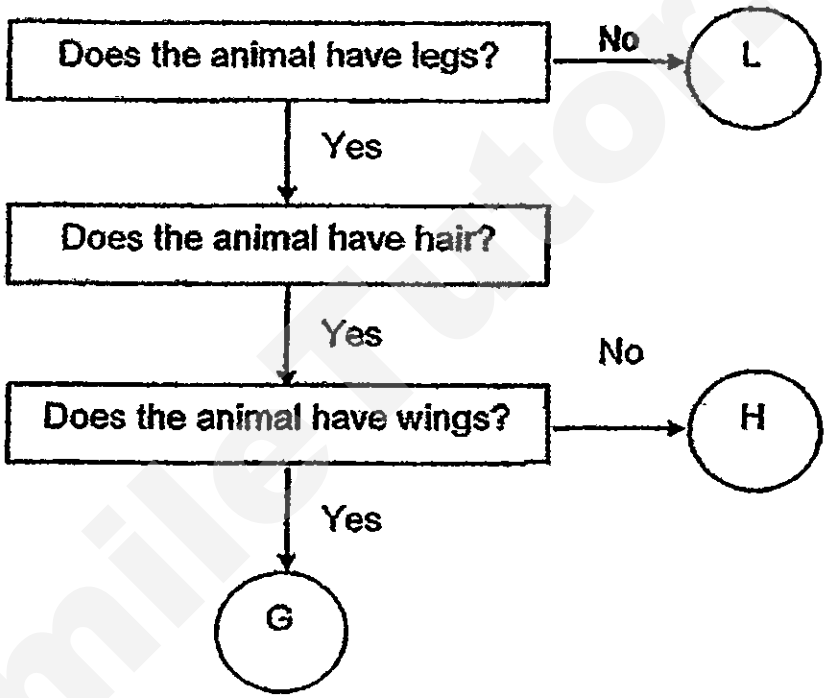
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10. Caden found an animal in the Eco-garden. He wanted to find out if the animal is a bird.

Which of the following observations can he make in order to determine if the animal is a bird?

(1) Measure its weight.
(2) Observe whether it has wings.
(3) Observe whether it has a beak.
(4) Observe whether it has any feelers.

11. Study the flow chart below.



Which of the following best represent G, H and L?

	G	H	L
(1)	bat	monkey	fish
(2)	mosquito	monkey	fish
(3)	monkey	fish	bat
(4)	bat	mosquito	monkey

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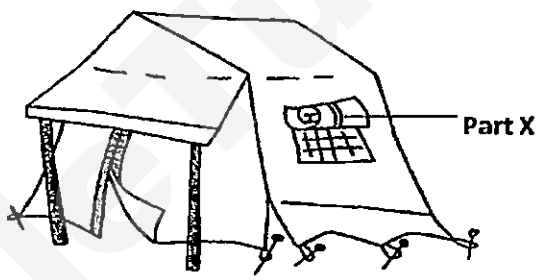
12. Standing at a height of 1m from the ground, Matthew dropped a 1 kg iron ball once on each of the three identical boxes made from different materials, P, Q and R. He then recorded the results of his experiment in the table below.

Material of box	P	Q	R
Appearance of the box after the experiment	Slightly damaged	Broke into a few pieces	No change

What can Matthew conclude about his experiment?

(1) Material Q is the strongest material.
(2) Material P is stronger than material R.
(3) Material R is stronger than material P.
(4) Material Q and R are stronger than material P.

13. The diagram below shows a tent.



During a camp, Linda rolled up part X to allow cool air into the tent. Which of the following properties enabled her to roll up part X?

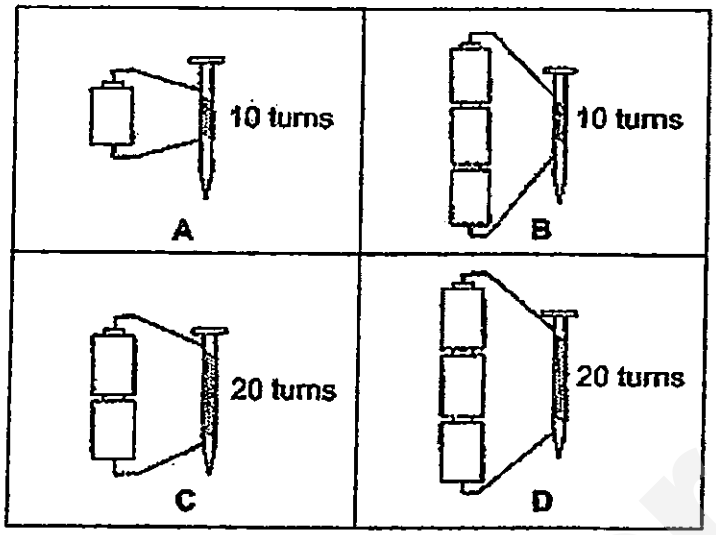
(1) Flexibility
(2) Strength
(3) Waterproof
(4) Ability to float in water

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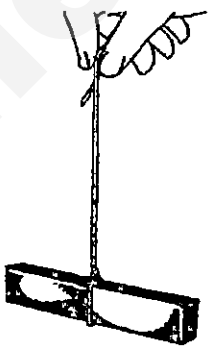
14. Andy had four temporary electromagnets. He wanted to find out if the number of batteries affects the strength of the electromagnets.



Which one of the following pairs of set-ups would be suitable for his experiment?

(1) A and B
(2) A and D
(3) B and C
(4) B and D

15. Fahan tied a string to a bar magnet and freely suspended it.



In which direction will the bar magnet point to when at rest?

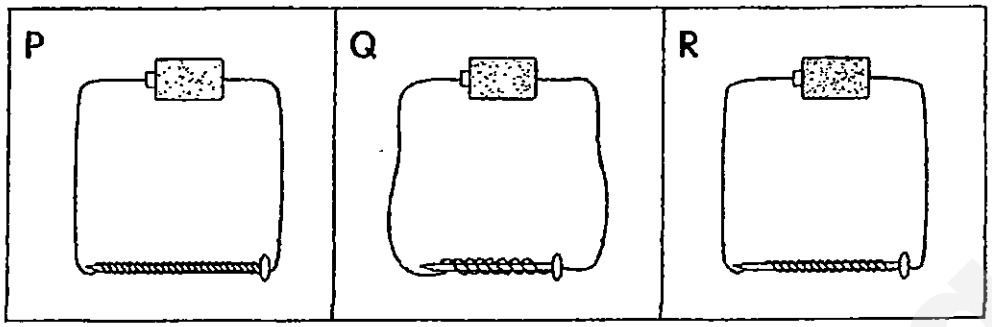
(1) north-south
(2) north-west
(3) east-west
(4) south-east

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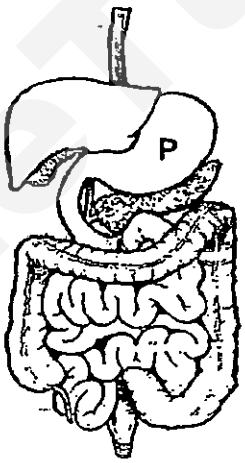
16. Three identical iron rods are used to make temporary electromagnets P, Q and R.



The electromagnets were arranged in ascending order of their magnetic strength, which of the following shows the correct arrangement?

(1) P, R, Q
(2) R, P, Q
(3) Q, R, P
(4) Q, P, R

17. The diagram below shows the digestive system.



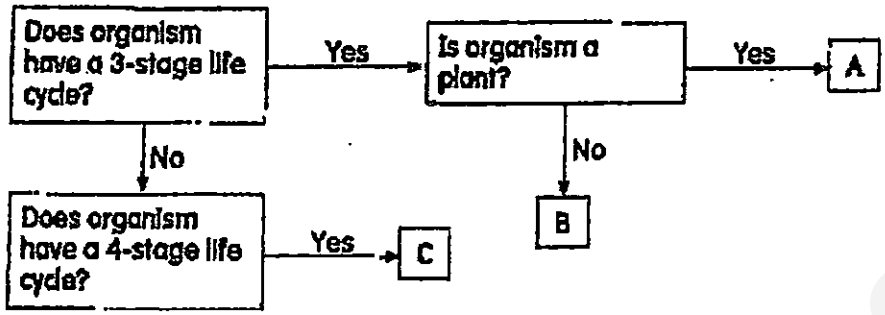
What is the state of the food that leaves P?

(1) Undigested food
(2) Fully digested food
(3) Food in larger pieces
(4) Partially digested food

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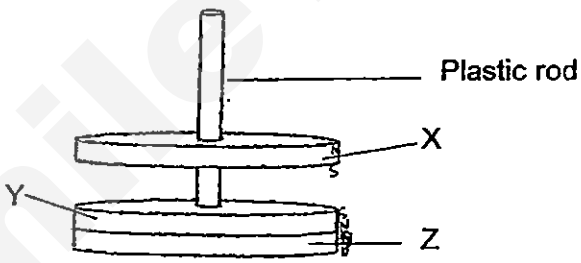
18. Study the flowchart below.



Which of the following **cannot** be placed in group A and C?

	Group A	Group C
(1)	mimosa	butterfly
(2)	bird nest fern	mealworm beetle
(3)	mango tree	mosquito
(4)	mushroom	cockroach

19. Study the diagram below carefully.



Which of the following statements are true?

A: X is definitely a magnet.
B: Y is definitely a magnet.
C: Z is definitely a magnet.

(1) A only
(2) B only
(3) A and B only
(4) B and C only

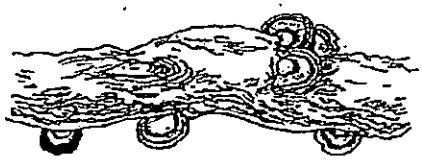
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fern



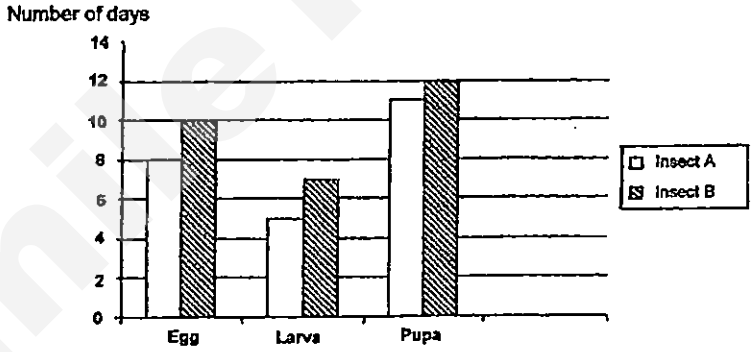
bracket fungi

Which of the following statements below correctly describe the similarities between them?

A: Both reproduce by spores.
B: Both are non-flowering plants.
C: Both need air and water to survive.
D: Both depend on decaying matter for food.

(1) A and C only
(2) A and B only
(3) B and C only
(4) C and D only

21. The graph below shows the number of days insects A and B spend in each stage of their life cycles.



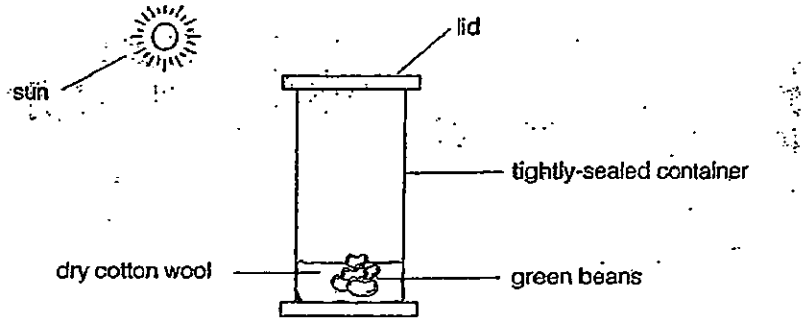
At which stage of their life cycles would insects A and B be on the 15th day after the eggs were laid?

	Insect A	Insect B
(1)	pupa	larva
(2)	larva	pupa
(3)	pupa	pupa
(4)	larva	larva

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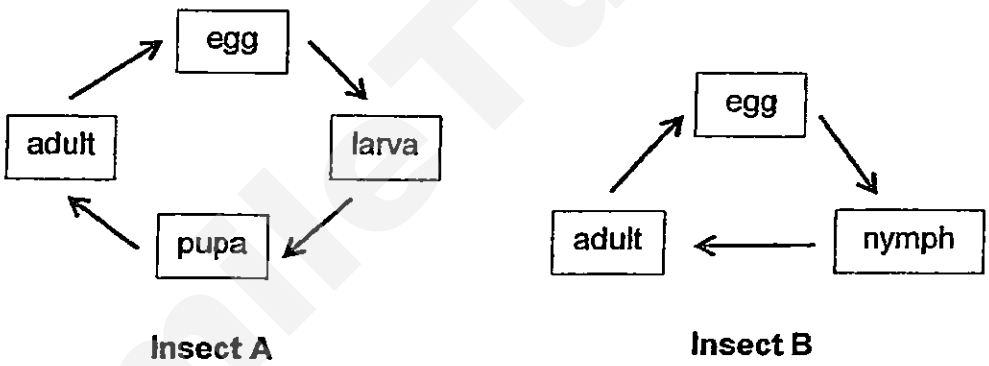
22. Siti placed some green beans in an air-tight container as shown below.



After one week, she observed that the seeds did not grow into a young plant. Which of the following is likely the reason for the observation?

(1) There was no air.
(2) There was no water.
(3) There was no warmth.
(4) There was not enough sunlight.

23. The life cycles of two insects are shown below.



Insect A **Insect B**

Based on the information given in the diagram, what conclusion can you make?

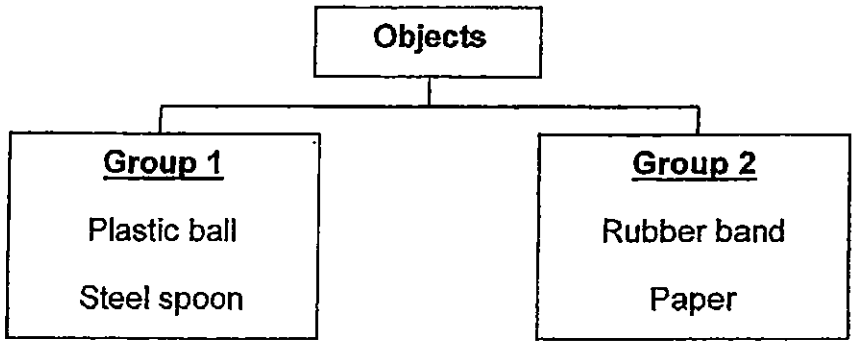
(1) Insect A lays eggs in water but insect B does not.
(2) The adult of insect A develop wings but not the adult of insect B.
(3) Insect A is likely to be a butterfly and insect B is likely to be a cockroach.
(4) Insect A takes a longer time than insect B to develop from an egg to an adult.

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24. Study the classification table below carefully.



Noah wrote down a few ways to classify the objects as shown below.

A: Whether they are flexible or not
B: Whether they are waterproof or not
C: Whether they are transparent or not
D: Whether they are made from natural or man made materials

Which of the above statements is/are the correct way(s) in which the objects are classified?

(1) A only
(2) A and D only
(3) B, C and D only
(4) A, B, C and D

25. Elyssa conducted an experiment to find out the properties of object P. The table below shows her actions and observations.

Elyssa's Action	Observations
Dropped object P on the floor	Object P changed its shape but did not break
Make object P into different shapes	Object P changed its shape easily

Which of the following objects best represents object P?

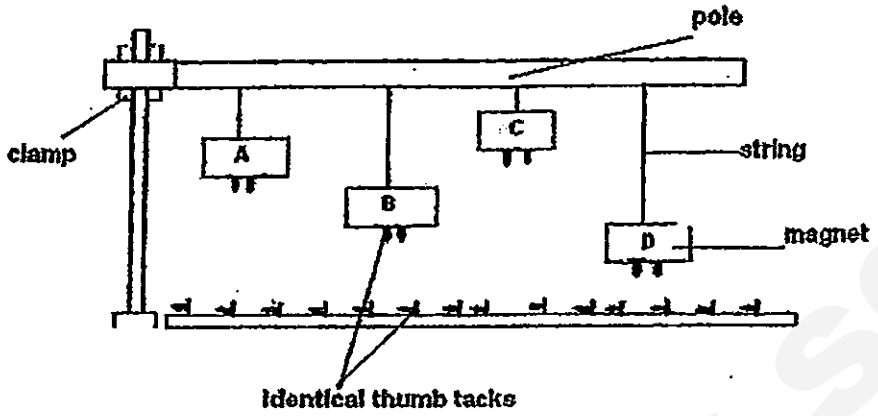
(1) Metal water bottle
(2) Wooden stick
(3) Glass bottle
(4) Plasticine

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26. Tasha set up an experiment using 4 similar magnets A, B, C and D with different magnetic strength hanging from a pole at different heights. She then placed some thumb tacks below the magnets.



Based on the diagram, which magnet has the greatest magnetic strength?

(1) A
(2) B
(3) C
(4) D

27. During a class discussion, four boys made different statements about the digestive system.

Andy:	Saliva helps to digest the food we eat.
Benny:	Only the small intestine helps to digest the food we eat.
Josh:	The large intestine absorbs water from the undigested food.
Chris:	The small intestine absorbs water from the undigested food.

Whose statements about the digestive system are correct?

(1) Andy and Josh only
(2) Andy and Chris only
(3) Josh and Chris only
(4) Benny and Chris only

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28. Elijah conducted an experiment using a bar magnet and some paper clips. He marked four positions Q, R, S and T on the bar magnet and lowered it into a dish containing paper clips.



bar magnet

He then recorded the number of paper clips attracted to different positions in the table below.

Position	No. of paperclips the magnet attracted
Q	15
R	6
S	8
T	19

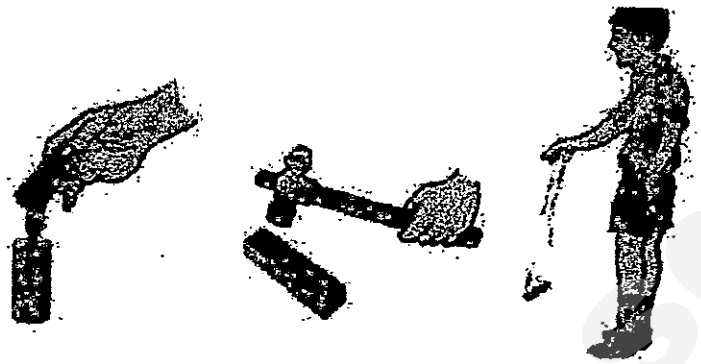
What can he conclude from his experiment?

(1) Magnetism is strongest at position Q only.
(2) Magnetism is the weakest at position S only.
(3) Magnetism is strongest at positions Q and T.
(4) Magnetism is the weakest at positions Q and T.

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29. Fadzi took 3 different bar magnets, A, B and C. He put magnet A over a flame, hit magnet B with a hammer and threw magnet C on the floor several times.

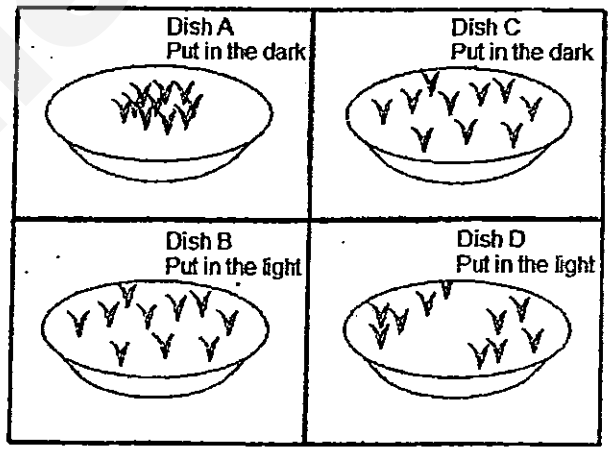


magnet A magnet B magnet C

What do you think will happen to the 3 bar magnets?

(1) Nothing will happen to the bar magnets.
(2) Only bar magnet A will lose its magnetism.
(3) All the bar magnets will lose some of its magnetism.
(4) All the bar magnets will become stronger than before.

30. Siti wanted to find out if plants respond to sunlight.



Which two set-ups should she choose?

(1) Dish A and Dish D
(2) Dish A and Dish C
(3) Dish B and Dish C
(4) Dish B and Dish D

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End of Booklet A

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Temasek Primary School

Semestral Assessment 2

Primary Three
2015

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SCIENCE
(Booklet B)

Name: _____

Class: Primary 3 _____

Date: 28 October 2015

Parent's Signature: _____

Total Time for Booklet A and B: 1h 45 min

INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number in the spaces provided clearly.
2. Do not open this booklet until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.

Paper	Marks	Scores
Booklet A	60	
Booklet B	40	
Total	100	

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Write the answers to questions 31 to 44 in this booklet.

The number of marks allocated is shown in the brackets [ ] at the end of each question.

(40 marks)

---

31. Lynn grouped the animals below according to the way they reproduce.

Group 1	Group 2
monkey	duck
giraffe	turtle
guppy	snake

a. How do the animals in each of the groups reproduce? [2]

Group 1: _____

Group 2: _____

b. Name one group of animals that reproduces the same way as the animals in group 2. [1]

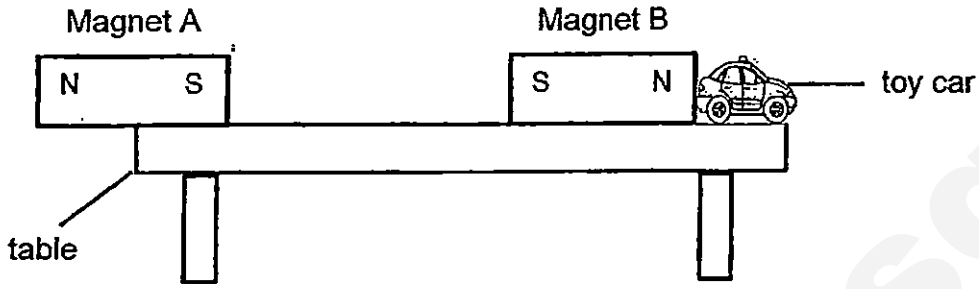
_____

Score	3

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32. Nicholas set-up an experiment as shown below.



a. What will happen to the toy car when magnet A is brought closer to magnet B? [1]

_____

b. Explain your answer in (a). [1]

_____

_____

c. Nicholas wants magnet B to move towards magnet A. What should Nicholas do to magnet B such that this will happen? [1]

_____

_____

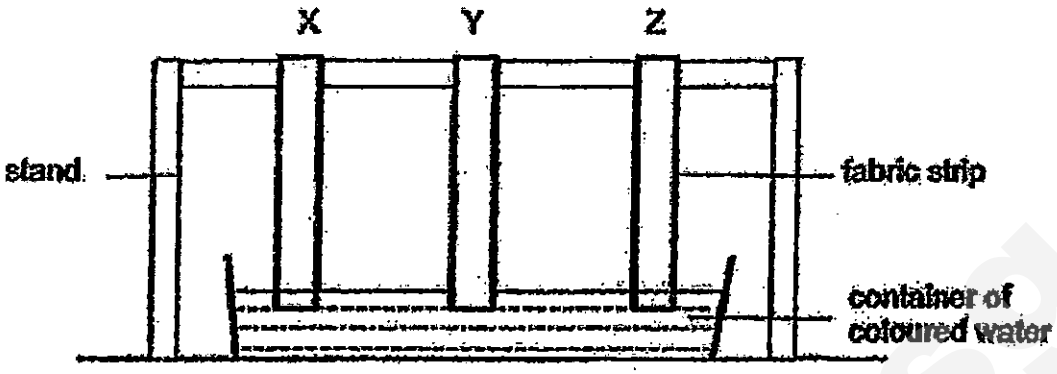
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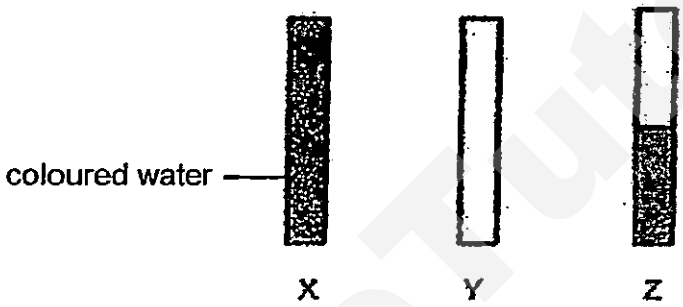
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33. Mr Lim carried out an experiment on 3 types of materials X, Y and Z of equal size and thickness as shown below.



He hung each strip of material from the stand such that part of it is in the container of coloured water. He removed the strips after 10 minutes and recorded his observation in the diagram below.



a. Arrange the fabrics from the most absorbent to the least absorbent. [1]

_____ , _____ , _____

b. Mr Lim spilled a large amount of water on the table. Which material (X, Y or Z) would he use to clean up the water? Why? [1]

_____

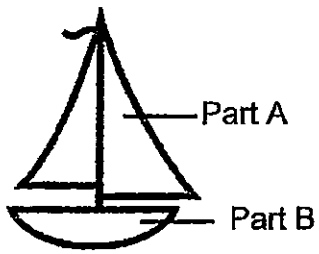
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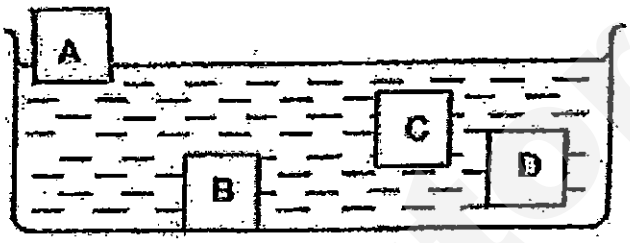
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34. Aiman wanted to build a simple boat.



He sets up an experiment to find out which material would be most suitable for making part B.



a. Based on his experiment, which material A, B, C or D would be most suitable for making part B? Why? [1]

_____

_____

b. Which property of material is he testing in this experiment? [1]

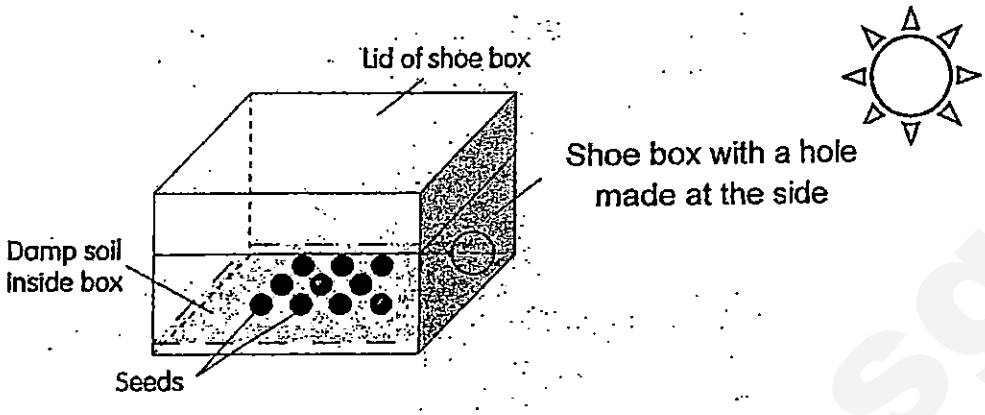
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Score	/2

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35. Ethan placed some damp soil in a shoe box made of thick cardboard that does not allow light to pass through. He placed ten green bean seeds into the soil and covered the box with its lid. A hole was cut out at one of the sides.



After 8 days, the young plants grew out of the hole of the shoe box.

a. Why did the plants grow out of the hole? [1]

_____

_____

b. State 2 characteristics of living things observed from his experiment. [2]

(i) _____

(ii) _____

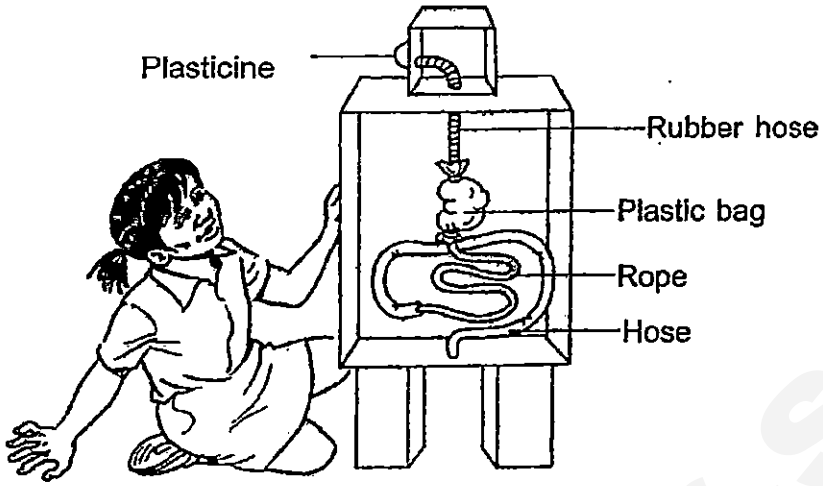
Score	3

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36. Felicia made a model of the human digestive system as shown below.



a. Identify each part of the human digestive system that represents the various parts of the model. [1]

	Parts of the model	Parts of human digestive system
[redacted]	Plasticine	Mouth
(i)	Rubber hose	
(ii)	Plastic bag	

b. State the function of the gullet in the digestive system. [1]

_____

c. State a difference in function between the small intestine and the large intestine. [2]

_____

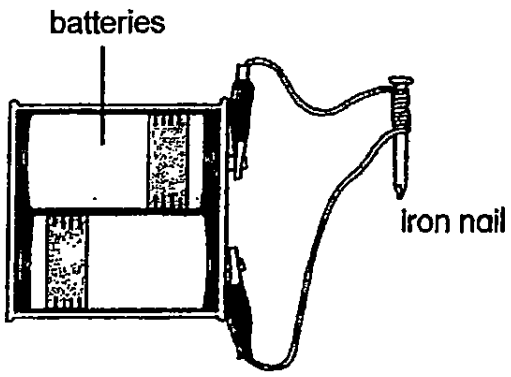
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	4

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37. The diagram below shows an electromagnet.



Set-up A

a. What will happen when some steel paper clips are placed near the iron nail? [1]

_____

_____

b. List **two** ways to increase the strength of an electromagnet. [2]

(i) _____

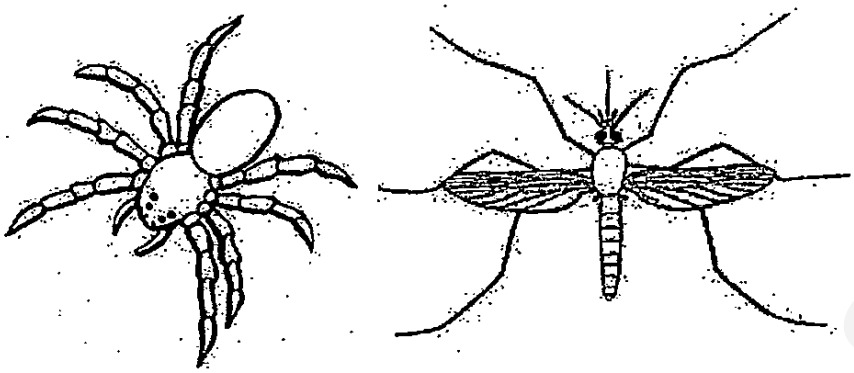
(ii) _____

Score	3

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38. The diagram below shows two different animals.



Animal A

Animal B

a. Based on the diagrams above, state two characteristics of animal B. [2]

(i) _____

(ii) _____

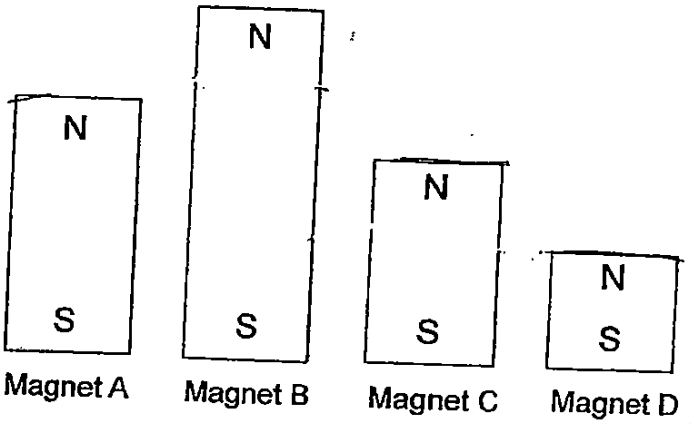
b. Based on the diagrams above, does animal A and animal B belong to the same group of animals? Explain your answer. [1]

_____

Score	3

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He placed the S-pole of each magnet at a distance of 5cm away from some paper clips and observed the number of paper clips attracted by each magnet. He recorded the results in the table below.

	Magnet A	Magnet B	Magnet C	Magnet D
Number of paper clips attracted	10	12	5	16

a. What was he trying to find out? [1]

b. From his experiment, what can he conclude about the strength of magnet D? [1]

Score	2

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40a. Draw and label the different stages in the life cycles of a mosquito and a cockroach in the boxes below. [2]
(You **do not** need to draw the pictures of the animals)

Life cycle of a mosquito	Life cycle of a cockroach

40b. State **two differences** between the **life cycles** of the two organisms you have drawn. [2]

First difference : _____

_____

Second difference : _____

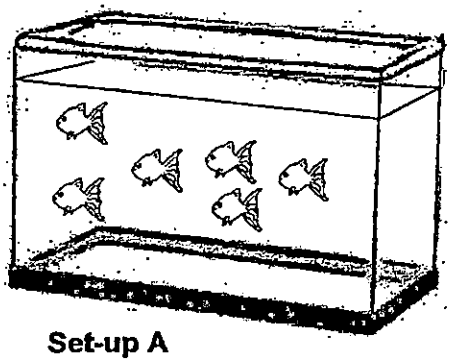
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Score	/ 4

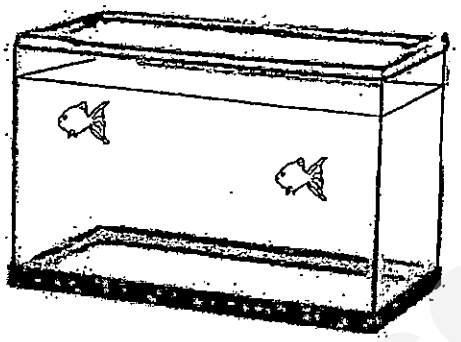
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41. Charlotte set up an experiment as shown below. She provided food that can last for 5 days.



Set-up A



Set-up B

She measured and recorded the remaining amount of food left in the tank every day and recorded her findings in the table below.

Amount of remaining food

	Day 1	Day 2	Day 3	Day 4	Day 5
Set-up A	100g	80g	60g	40g	20g
Set-up B	100g	95g	90g	85g	80g

a. Why is the amount of food in set-up B more than set-up A on the 5th day? [1]

_____

b. Charlotte continued feeding the fish in both tanks. The following week, there was an increase in the number of fish in set-up B even though she did not add in any new fish to the set-up.

What could be the possible reason for her observation? [1]

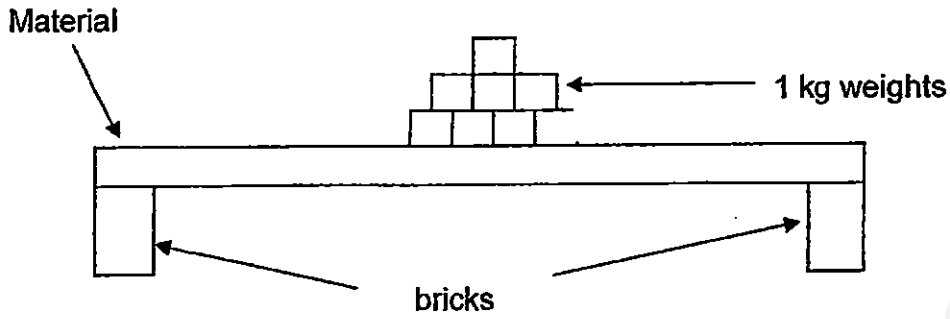
_____

Score	
	2

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42. Sammy carried out an experiment as shown below.



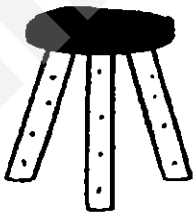
He placed different materials on two bricks and added weights onto each material until it finally broke. He then recorded his observations below.

Material	Amount of weight required to break the material/kg
E	15
F	5
G	20

a. What property of the materials was Sammy trying to find out from his experiment? [1]

_____

Sammy's brother chose material E to make a stool as shown below. However, Sammy explain that material E is not suitable.



Information on stool:

Suitable for children below 4 years old and weighs not more than 20kg.

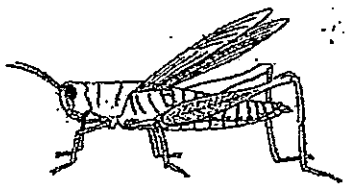
b. Do you agree with Sammy? Explain your answer. [1]

_____

Score / 2

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Grasshopper



Butterfly

a. State the number of stages in the life cycle of both the grasshopper and butterfly. [1]

grasshopper : _____ butterfly : _____

b. At which stage of its life cycle is the butterfly a pest to farmers? Why? [1]

_____

c. Put a tick in the boxes below to state whether the statement is **true** or **false**. [2]

		True	False
(i)	The grasshopper has a nymph stage in its life cycle while the butterfly does not.		
(ii)	Butterflies lay their eggs on the underside of the leaves to prevent predators from eating them.		

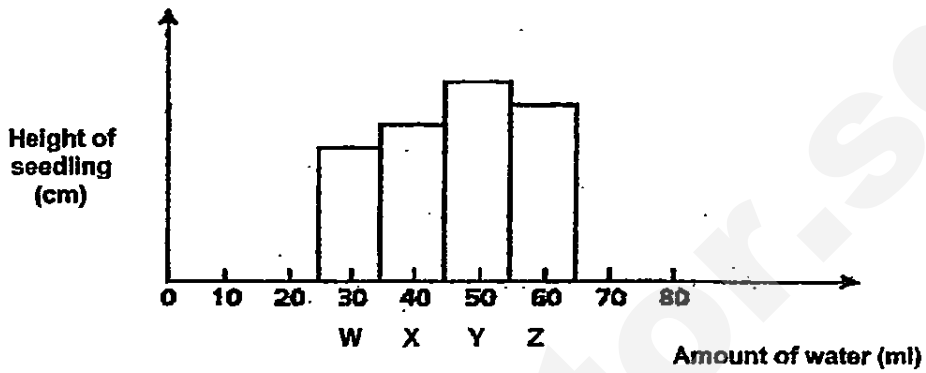
Score	4

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44. Elsa carried out an experiment to find out how the amount of water affects the height of a seedling. She placed four similar seeds into four identical containers W, X, Y and Z.

She placed the containers near the window and water the containers with different amounts of water every day. She then measured the height of the seedlings after 5 days and recorded the measurements on a graph as shown below.



a. In which container did the seed grow the tallest? [1]

_____

b. What would happen if Elsa stopped watering the seedlings for a week? [1]

_____

c. In order for her experiment to be successful, Elsa used the same type of seeds for her experiment. Explain why. [1]

_____

Score	3

End of the paper.

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : TEMASEK PRIMARY SCHOOL
SUBJECT : SCIENCE
TERM : SA2

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
4	**1**	**4**	**2**	**2**	**2**	**3**	**4**	**3**	**3**
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
1	**3**	**1**	**1**	**1**	**3**	**4**	**4**	**3**	**1**
Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
1	**2**	**3**	**2**	**4**	**3**	**1**	**3**	**3**	**3**

Q31a. Group 1 : Give birth Group 2: Lays eggs

Q31b. Fish Q32a. The toy car will drop off the table.

Q32b. Magnet A and B are facing each other with the like poles, so when A comes forward both repel each other.

Q32c. Turn magnet B such that the north pole is facing the south pole of magnet A.

Q33a. X, Z, Y Q33b. X. It absorb the most water.

Q34a. A. It floats on water.

Q34b. He is testing if the material will float on water.

Q35a. They are growing towards the sunlight.

Q35b. (i) Living things can respond to changes. (ii) Living things can grow

Q36a. (i) gullet (ii) stomach

Q36b. The gullet brings the food down to the stomach.

Q36c. The small intestine absorb the digested food but the large intestine absorb the water.

Q37a. It will be attracted. Q37b. (i) Add more wire. (ii) Add more batteries.

Q38a. (i) It has 3 pair of legs. (ii) It has 3 body parts.

Q38b. No. A has 4 pairs of legs but B has 3 pairs.

Q39a. He was trying to find out if the size of the magnet of feet its strength.

Q39b. It is the strongest.

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Q40a. Life cycle of a cockroach➔ egg ➔ nymph ➔ adult

Q40b. First difference: The mosquito has a larva and pupa stage but the cockroach has nymph stage.

Q40b. Second difference: The cockroach lays eggs on land but the mosquito lays eggs in water.

Q41a. Set up A has more fish in set up B.

Q41b. In Set up B ,the fish in the tank reproduce.

Q42a. The strength of the material.

Q42b. Yes. Material E cannot withstand weight more than 15kg.

Q43a. Grasshopper: 3 stages butterfly : 4 stages

Q43b. The larva. The larva of the butterfly will eat the leaves of the crop.

Q43c (i) TRUE (ii) TRUE

Q44a. Y. Q44b. The seedling will die.

Q44c. Different seeds germinate in different rate.

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PRIMARY 3 END-OF-YEAR EXAMINATION 2015

Name : _____

Class : Primary 3 ( )

Parent's Signature : _____

Date: 30 October 2015

Time: 7.50 a.m. to 9.15 a.m.

Marks: _____ / 50

SCIENCE

BOOKLET A

INSTRUCTIONS TO CANDIDATES

Write your name, register number and class.

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

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Booklet A (25 x 2 marks = 50 marks)

For each question, choose the most suitable answer and shade its corresponding oval (1, 2, 3 or 4) in the optical answer sheet.

1. Study the classification table below.

Group A	Group B
guppy butterfly mimosa plant	shirt kettle basketball

Which of the following could be placed in Group B?

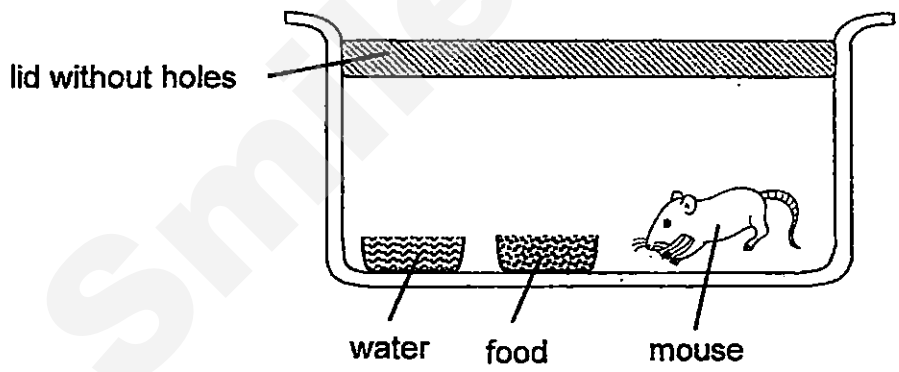
(1) moss

(2) orchid plant

(3) chimpanzee

(4) handkerchief

2. Jonathan put a mouse in a sealed container as shown in the diagram below.



A week later, he found that the mouse had died. Which of the following is most likely to have caused the mouse to die?

(1) There is not enough air in the container.

(2) There is not enough food in the container.

(3) There is not enough water in the container.

(4) There is not enough space in the container.

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3. Chloe accidentally touched a kettle of hot water. She immediately removed her hand. This shows that living things _____.



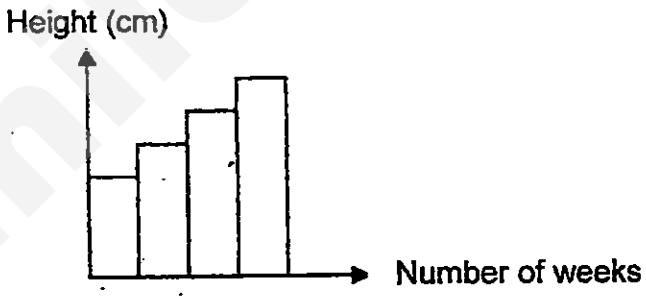
(1) grow

(2) reproduce

(3) respond to changes around them

(4) need air, food and water to stay alive

4. The graph below shows how the height of an orchid plant changed over 4 weeks.



What can you conclude from the results of the graph?

(1) The plant grew.

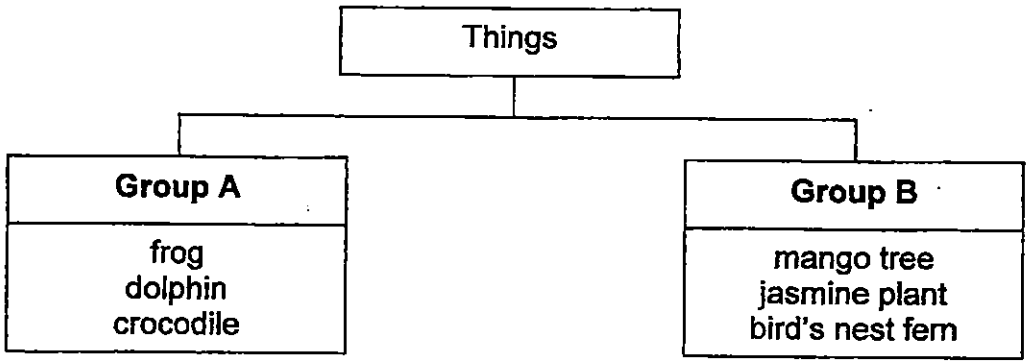
(2) The plant reproduced.

(3) The plant needed air, food and water to stay alive.

(4) The plant responded to changes in the environment.

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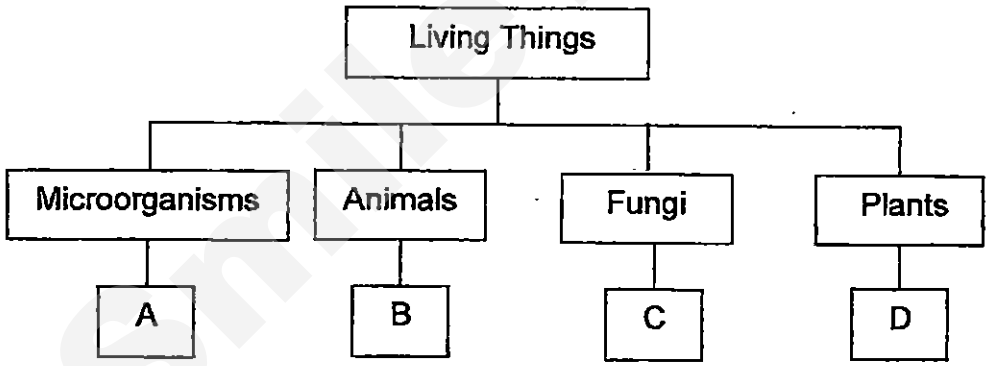
5. Study the classification diagram below.



Which of the following represents the headings for Group A and Group B correctly?

	Group A	Group B
(1)	fungi	plants
(2)	animals	plants
(3)	microorganisms	animals
(4)	animals	microorganisms

6. Study the classification diagram below.

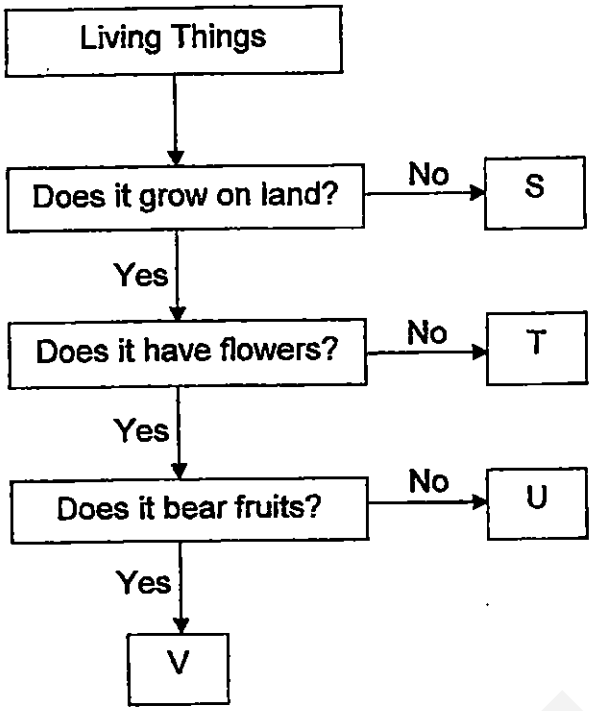


Which of the following best represents A, B, C and D respectively?

	A	B	C	D
(1)	mould	hibiscus	bacteria	penguin
(2)	hibiscus	mould	penguin	bacteria
(3)	bacteria	penguin	mould	hibiscus
(4)	penguin	bacteria	hibiscus	mould

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7. Study the flowchart below.



Which of the following best represents the durian tree?

(1) S

(2) T

(3) U

(4) V

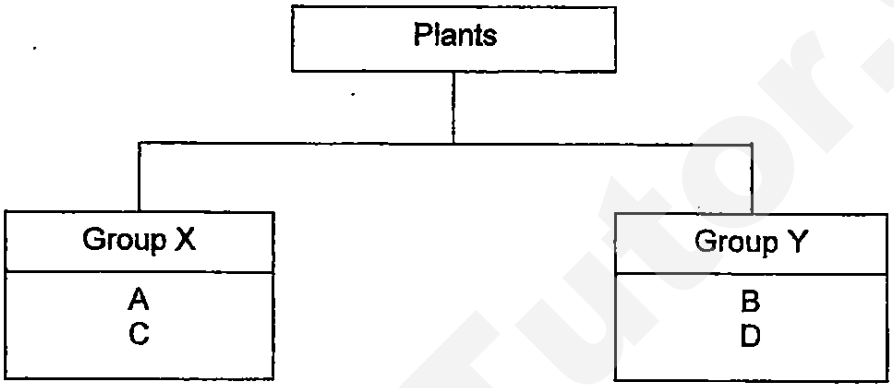
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8. The table below shows the characteristics of four plants, A, B, C and D.
A tick (✓) shows that the plant has the characteristic.

Characteristic	Plant			
	A	B	C	D
found on land		✓		✓
reproduces by spores		✓		
bears flowers	✓			✓

Using the information above, Desmond drew the following chart to classify them.

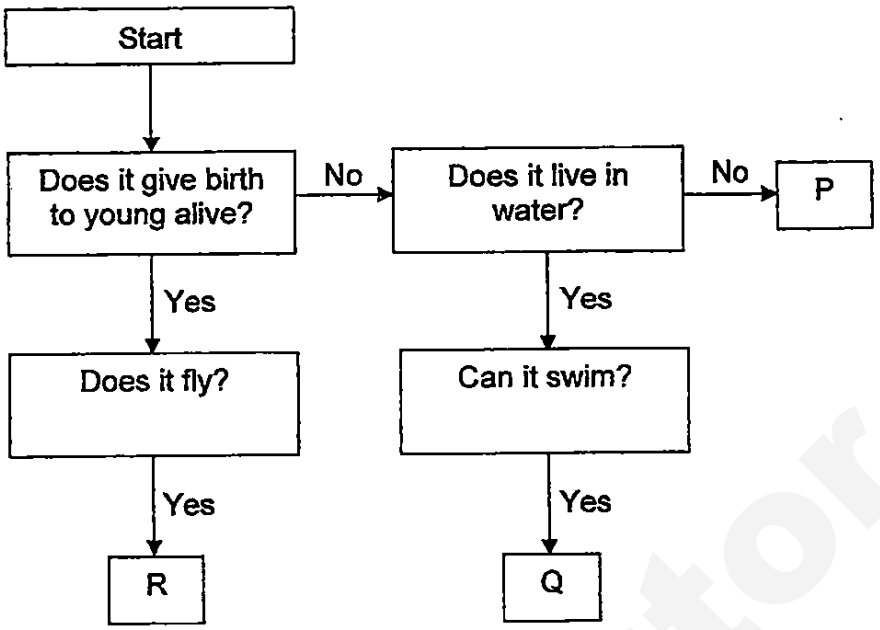


Which of the following best represents the headings for Group X and Group Y?

	Group X	Group Y
(1)	water plants	land plants
(2)	land plants	water plants
(3)	flowering plants	non–flowering plants
(4)	non–flowering plants	flowering plants

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9. Study the flowchart below.



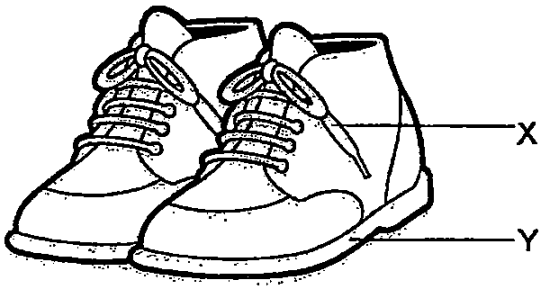
Which of the following could P, Q and R be?

	P	Q	R
(1)	elephant	goldfish	owl
(2)	platypus	guppy	eagle
(3)	chicken	clownfish	bat
(4)	monkey	dolphin	parrot

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10. The diagram below shows a pair of school shoes.



Which of the following correctly shows the material used for parts X and Y?

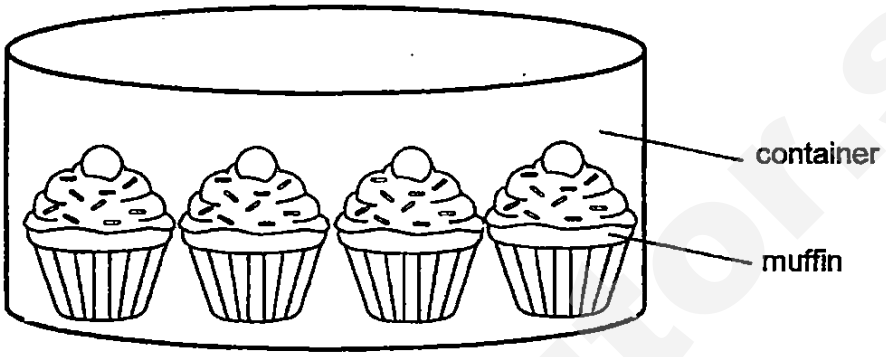
	Part X	Part Y
(1)	plastic	rubber
(2)	fabric	metal
(3)	fabric	rubber
(4)	plastic	metal

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11. Eric needs to keep some muffins in a container. His mother reminds him to keep them in a container which has the following properties.

Properties of the container
▪ Light ▪ Transparent ▪ Does not break easily



Which material should the container be made of?

(1) glass

(2) metal

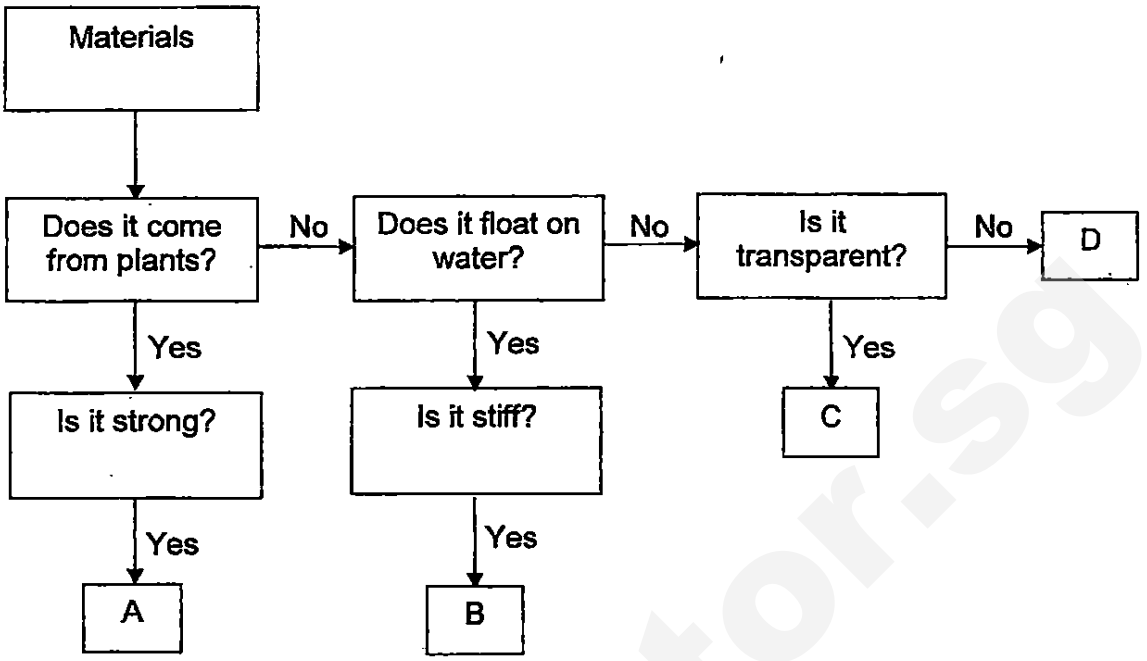
(3) plastic

(4) ceramic

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12: Study the flowchart below.



Which of the following correctly identifies the objects A, B, C and D?

	A	B	C	D
(1)	car tyre	styrofoam ball	glass marble	metal key
(2)	metal key	styrofoam ball	glass marble	car tyre
(3)	car tyre	glass marble	styrofoam ball	metal key
(4)	styrofoam ball	car tyre	metal key	glass marble

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13. The picture below shows a photo frame. Part X of the photo frame can be made of either plastic or glass so that Mandy can look at the photograph.

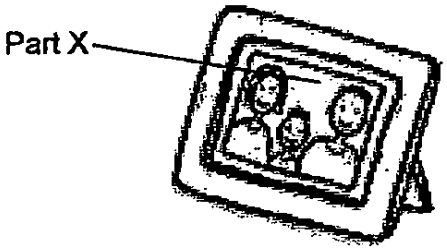


photo frame

Which of the following properties of the glass and plastic makes them most suitable for making Part X of the photo frame?

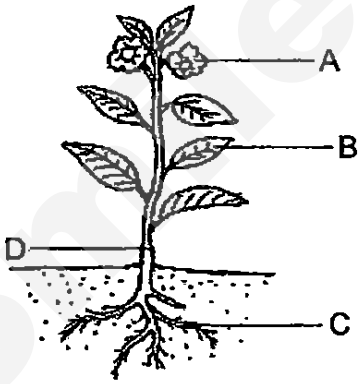
(1) Both are light.

(2) Both are strong.

(3) Both are flexible.

(4) Both are transparent.

14. The picture below shows a flowering plant.



Which of the following represents the part which holds the plant firmly to the soil?

(1) A

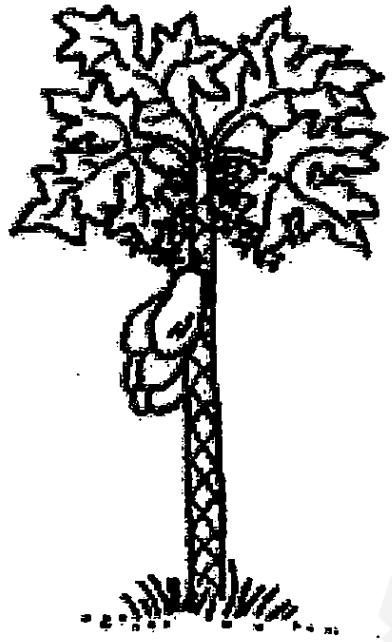
(2) B

(3) C

(4) D

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15. The picture below shows a papaya tree.



Based on the picture above, which statement best describes the papaya tree?

(1) It is a flowering plant with a weak stem.

(2) It is a flowering plant with a strong stem.

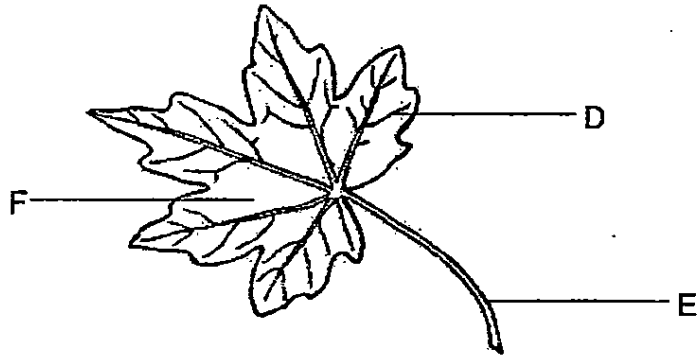
(3) It is a non–flowering plant with a weak stem.

(4) It is a non–flowering plant with a strong stem.

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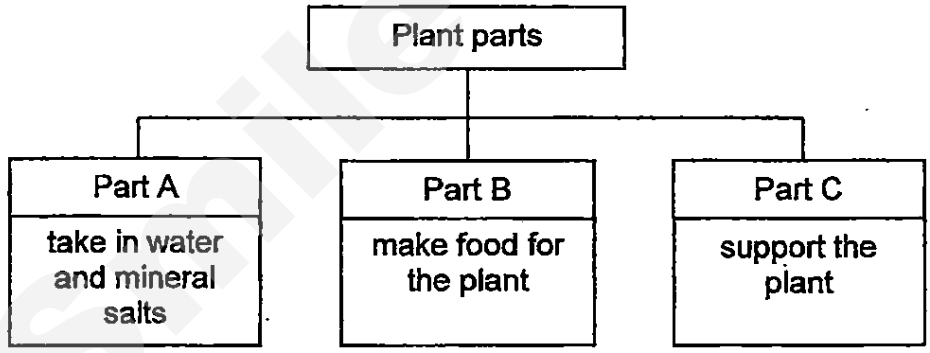
16. Study the leaf below.



Which of the following best represents D, E and F respectively?

	D	E	F
(1)	leaf vein	leaf blade	leaf stalk
(2)	leaf vein	leaf stalk	leaf blade
(3)	leaf stalk	leaf blade	leaf vein
(4)	leaf stalk	leaf vein	leaf blade

17. Study the classification table below.

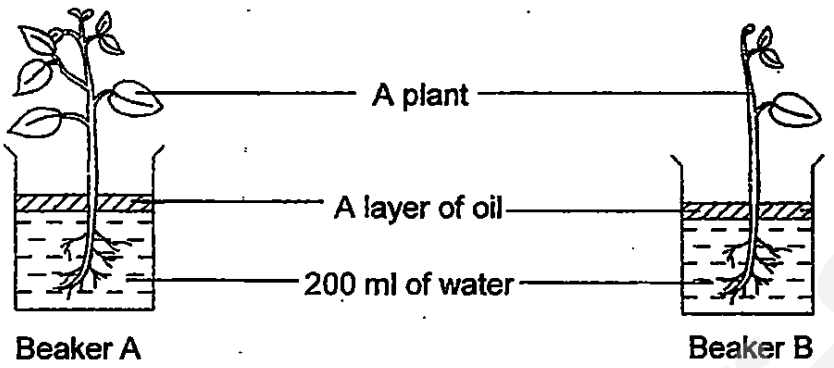


Which of the following represents the plant parts correctly?

	Part A	Part B	Part C
(1)	stems	leaves	roots
(2)	roots	stems	leaves
(3)	leaves	roots	stems
(4)	roots	leaves	stems

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18. Carol set up an experiment to find out if the number of leaves affects the amount of water taken in by a plant. She filled two beakers with 200 ml of water and placed a plant in each beaker. She left the plants near an open window for two weeks.



She recorded the amount of water left in both beakers after two weeks as shown in the table below.

Amount of water left in Beaker A (ml)	Amount of water left in Beaker B (ml)
60	75

What can she conclude from the results of the experiment?

(1) The greater the number of leaves the plant has, the lower the amount of water taken in by the plant.

(2) The greater the number of leaves the plant has, the larger the amount of water taken in by the plant.

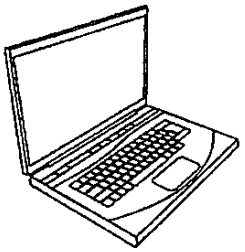
(3) The smaller the number of leaves the plant has, the larger the amount of water taken in by the plant.

(4) The number of leaves which the plant has does not affect the amount of water taken in by the plant.

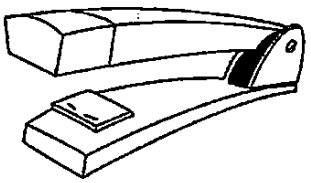
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19. Which of the following is not a system?

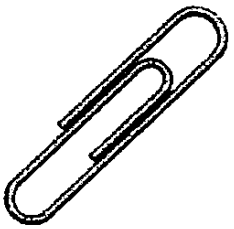
(1) laptop



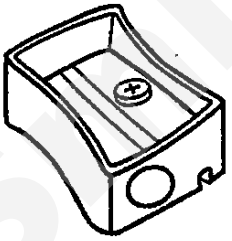
(2) stapler



(3) paper clip



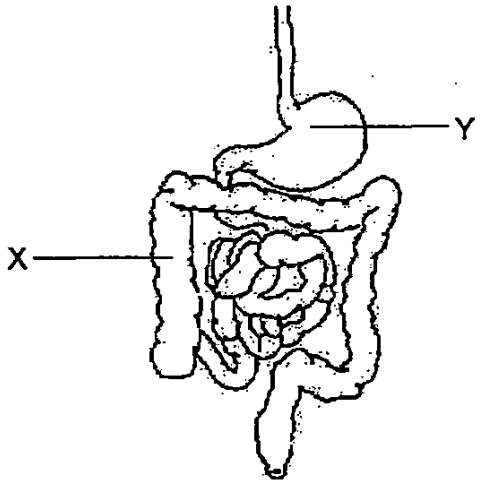
(4) sharpener



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20. Study the diagram of the human digestive system below.



What are parts X and Y?

	Part X	Part Y
(1)	small intestine	stomach
(2)	small intestine	gullet
(3)	large intestine	stomach
(4)	large intestine	gullet

21. In the human digestive system, which parts contain digestive juices?

A: Mouth
B: Gullet
C: Stomach
D: Small intestine
E: Large intestine

(1) A, C and D only

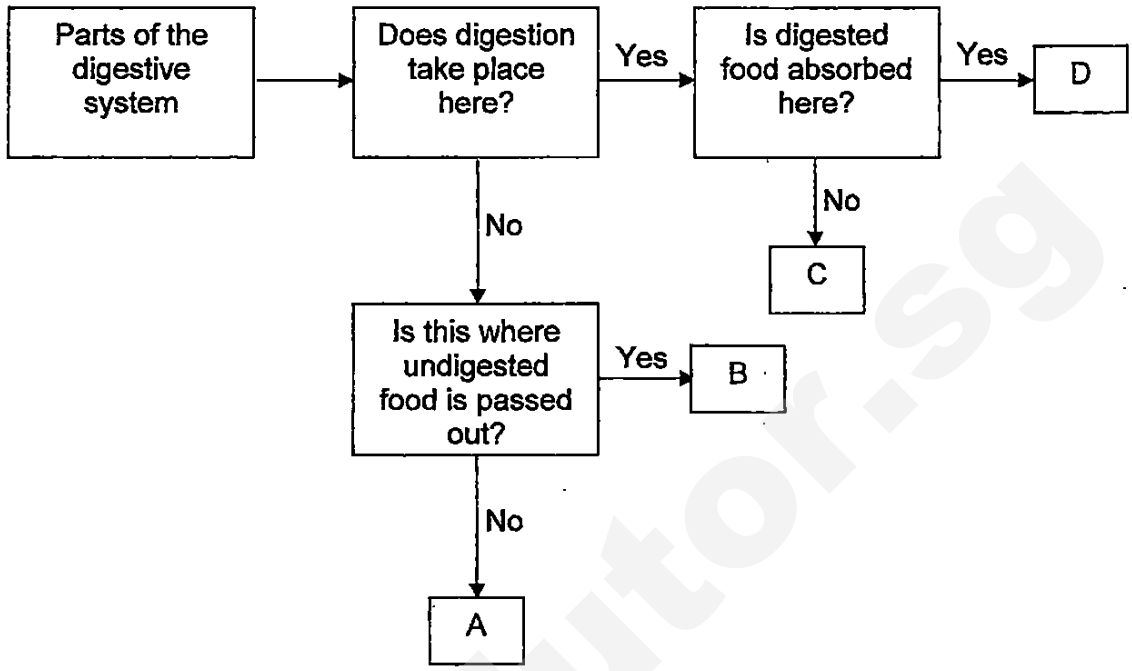
(2) A, D and E only

(3) B, C and D only

(4) C, D and E only

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22. Study the flowchart below.



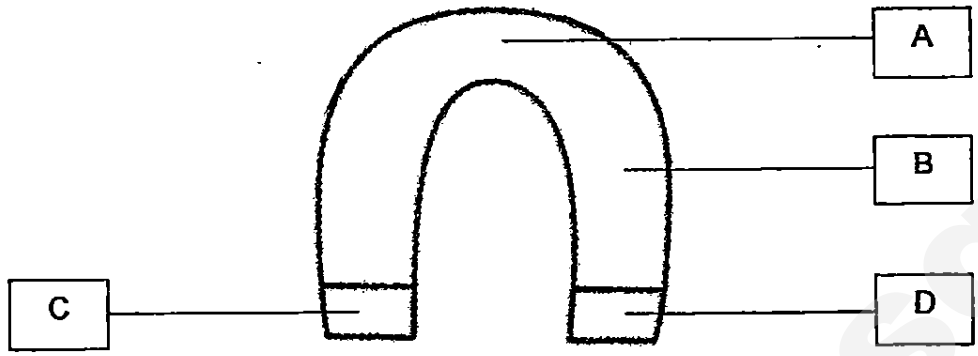
Which of the following could A, B, C and D be?

	A	B	C	D
(1)	stomach	large intestine	small intestine	anus
(2)	large intestine	anus	stomach	small intestine
(3)	large intestine	stomach	small intestine	anus
(4)	stomach	small intestine	anus	large intestine

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23. Celine lowered the magnet below into a container filled with iron pins.



Which parts of the magnet are most likely to attract the highest number of iron pins?

(1) A and B

(2) A and C

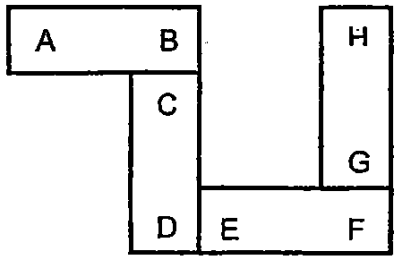
(3) B and C

(4) C and D

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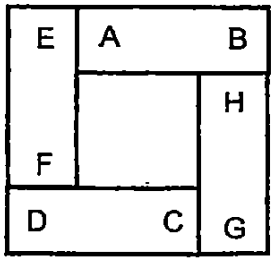
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24. Study the arrangement of the 4 magnets as shown below.

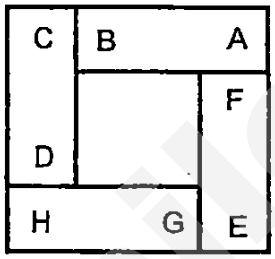


Which of the following arrangements is possible?

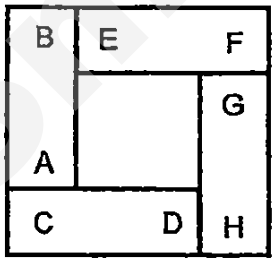
(1)



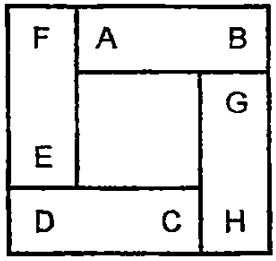
(2)



(3)

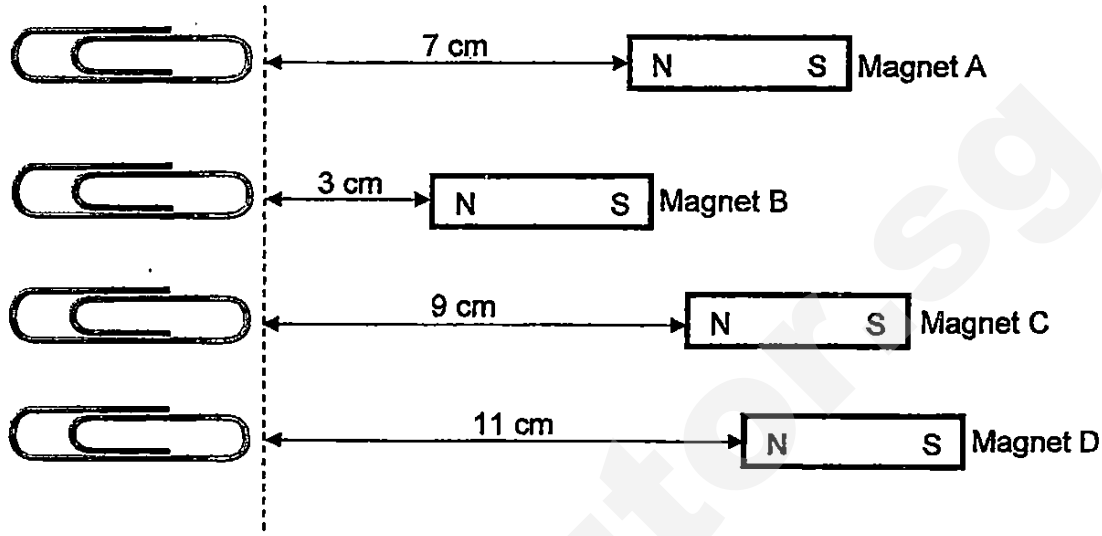


(4)



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25. The diagram below shows the greatest distance at which the four magnets, A, B, C and D, will attract each identical paper clip.



Which of the following shows the magnets being arranged according to their magnetic strength, starting from the weakest magnet?

	Weakest → Strongest			
(1)	C	B	D	A
(2)	A	D	B	C
(3)	B	A	C	D
(4)	D	C	A	B

– End of Booklet A –

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PRIMARY 3 END-OF-YEAR EXAMINATION 2015

Name : _____ ( ) Date: 30 October 2015

Class : Primary 3 ( ) Time: 7.50 a.m. to 9.15 a.m.

Parent's Signature : _____ Marks: _____ / 30

SCIENCE
BOOKLET B

INSTRUCTIONS TO CANDIDATES

Write your name, register number and class.

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

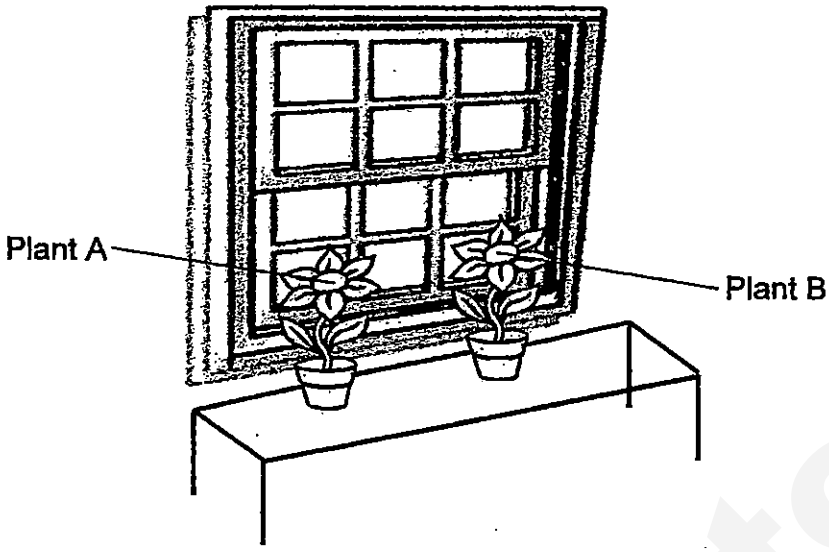
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Booklet B (30 marks)

For the questions, 26 to 35, write your answers in the spaces provided.

26. Karen placed 2 similar potted plants, Plant A and Plant B, near a window. For a period of three weeks, she watered Plant B daily but did not water Plant A at all.



(a) What will happen to Plant A after three weeks? Explain your answer. (1m)

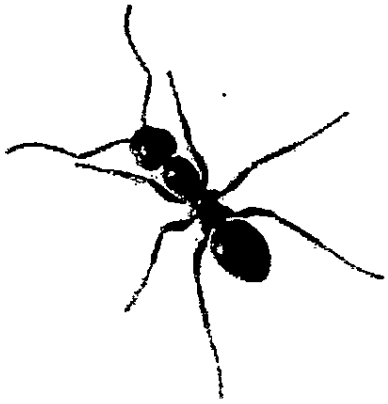
(b) Match the following observations to the correct characteristics of the living things.

(2m)

Observations		Characteristics of living things
A frog lays many eggs in the pond.	■	Living things respond to changes.
A bird feeds on the worms on the ground.	■	Living things grow.
A rabbit runs away quickly when it sees a tiger.	■	Living things need food to stay alive.
A female chick becomes a hen after three months.	■	Living things reproduce.

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27. Study the pictures below.



Ant



Dragonfly

(a) Which animal group do the ant and the dragonfly belong to? (1m)

_____

(b) Based on the pictures, write down one similarity between the two animals. (Do not compare colour, shape and size.) (1m)

_____

_____

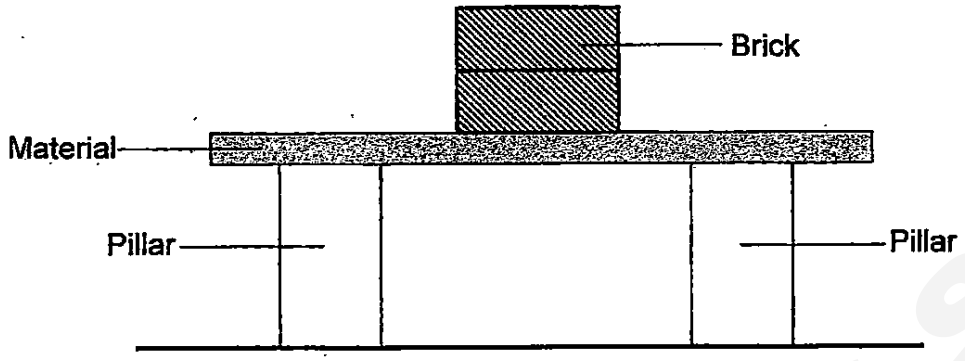
(c) Based on the pictures, write down one difference between the two animals. (Do not compare colour, shape and size.) (1m)

_____

_____

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28. Jenson set up an experiment to test the strength of four different materials, E, F, G and H. A piece of material was placed over two pillars. Bricks were added onto each piece of material till it broke.



The table below shows the number of bricks the material could hold before it broke.

Material used	Number of bricks it could hold before breaking
E	6
F	1
G	9
H	7

(a) Which material is the strongest? Explain your answer. (1m)

(b) Tick (✓) the variables that must be kept the same in order for this experiment to be a fair test. (2m)

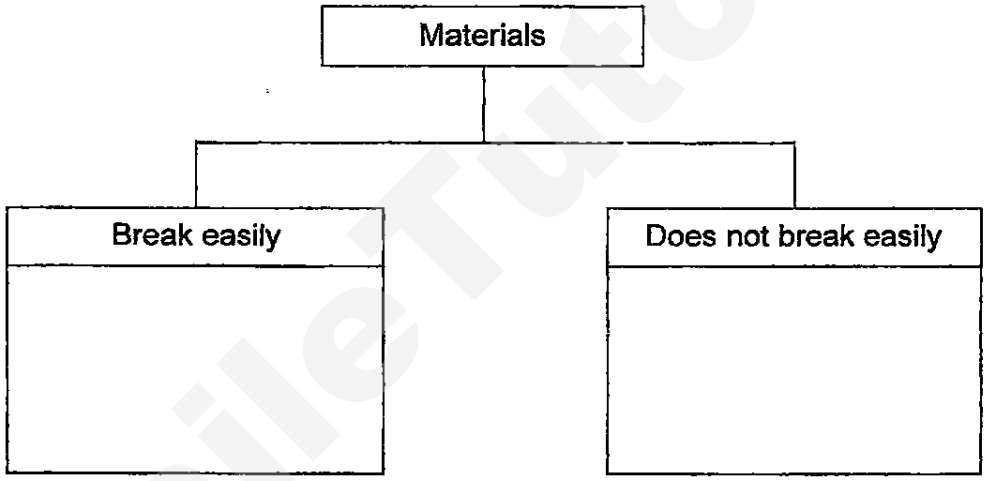
Variable	Variable that must be kept the same
Mass of each brick	
Material of the pillar	
Thickness of the material	
Type of the material used	

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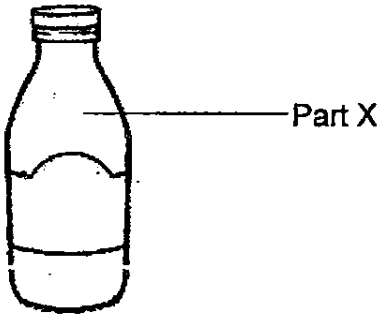
29. The table below shows the characteristics of four materials, A, B, C and D.
A tick (✓) shows that the material has the characteristic.

Characteristic	Materials			
	A	B	C	D
It is strong.	✓	✓	✓	✓
It is flexible.	✓			✓
It is waterproof.		✓	✓	✓
It is transparent.		✓		✓
It breaks easily.		✓		

(a) Use the information above to complete the classification diagram below by placing the four materials A, B, C or D under the correct heading. (2m)



(b)



Waterbottle

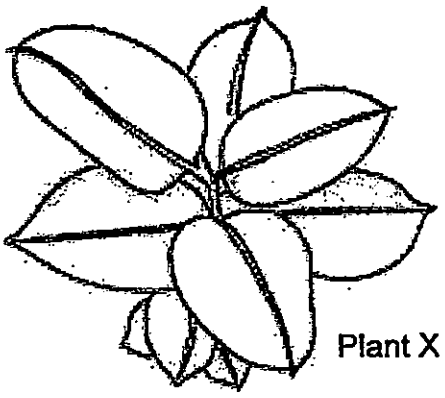
Why is Material C more suitable than Material A in making Part X of the waterbottle? (1m)

_____

_____

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30. (a) The diagram below shows how the leaves of Plant X look like.

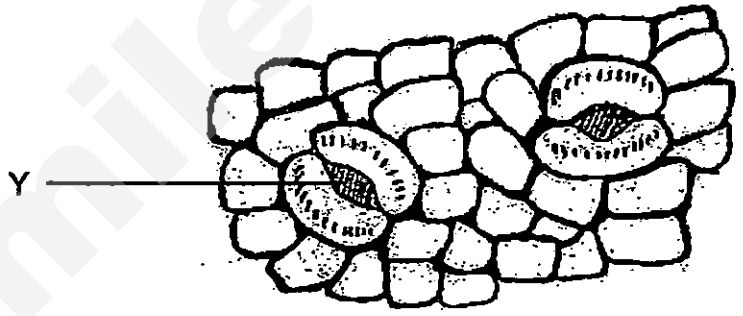


Explain why the leaves of Plant X are spread out in this way. (1m)

_____

_____

(b) The diagram below shows a magnified image of a part of a leaf.



(i) Name Part Y of the plant as shown in the picture above. (1m)

_____

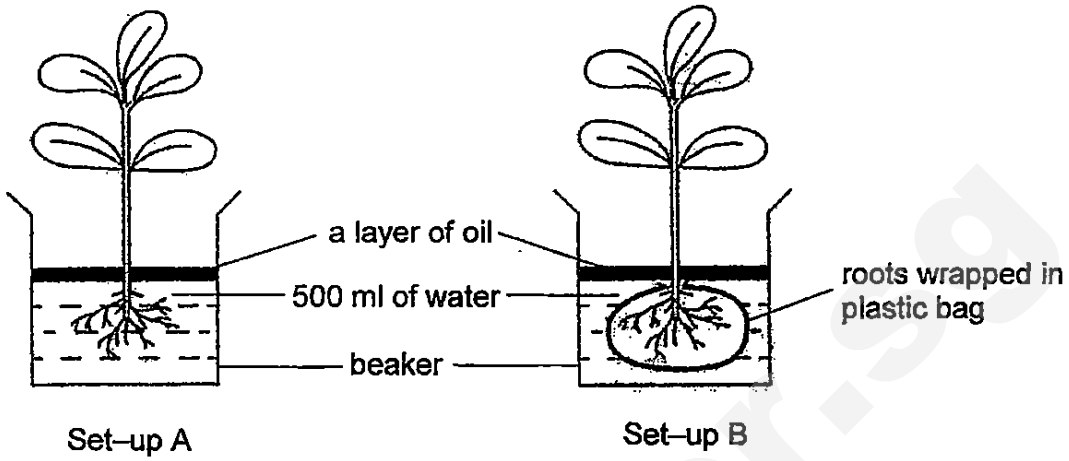
(ii) What is the function of Part Y? (1m)

_____

_____

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31. Kenneth wanted to find out if plants need water to survive. He set up an experiment shown in the diagram below.



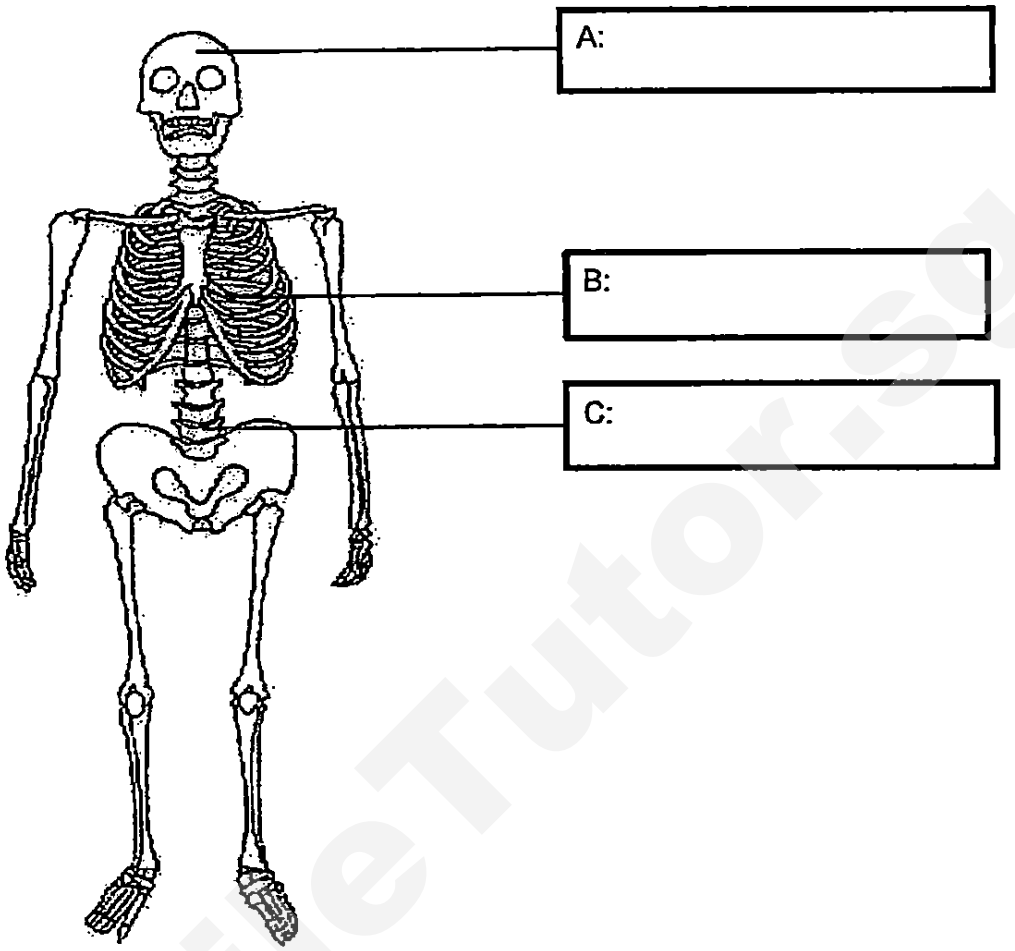
(a) Kenneth then put the two beakers near a window and recorded the amount of water in each beaker every 3 days from Day 1 to Day 7 in the table below. Fill in the possible missing volumes of water in Day 4 and Day 7 by completing the empty spaces in the table. (1m)

Day	Volume of water (ml)	
Day 1	500	500
Day 4	(i)	500
Day 7	200	(ii)

(b) Two weeks later, Kenneth realised that a plant in one of the set–ups had died. Which set–up, A or B, would that be? Explain why. (2m)

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32. (a) Study the diagram below carefully. Identify the parts A, B and C. (1½m)



(b) Which part, A, B, or C, of the diagram above protects the brain? (½m)

_____

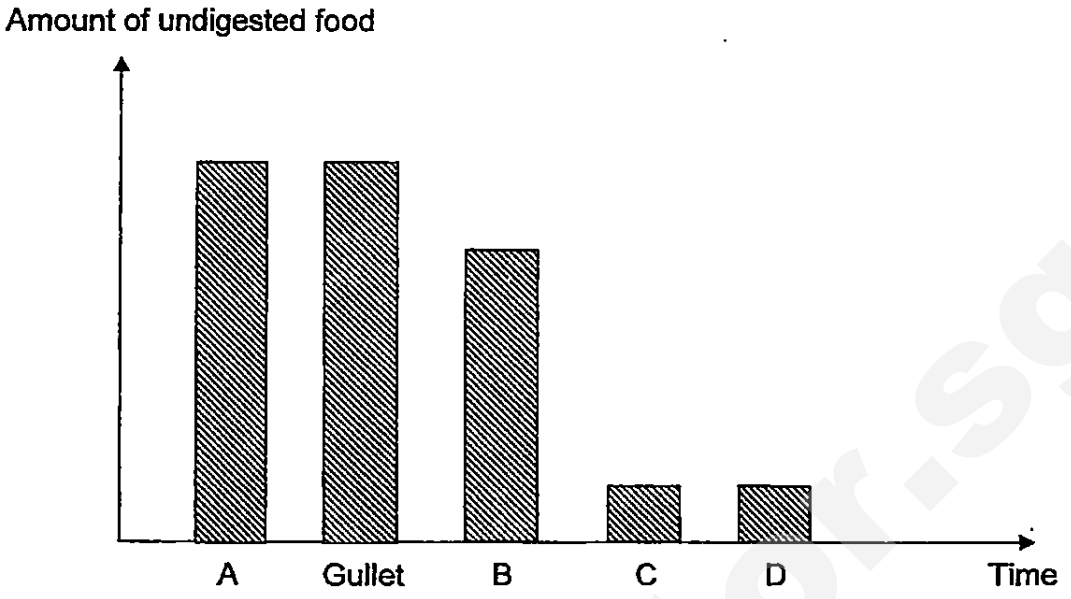
(c) Name the other system which needs to work with the skeletal system to enable a body to move. (1m)

_____

_____

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33. Belinda just ate a pear. The bar graph below shows the amount of undigested pear as it leaves each organ (A, B and C and D) of her digestive system over 4 hours.



(a) Identify the organs A, B, C and D of the digestive system. (2m)

A: _____

B: _____

C: _____

D: _____

(b) Explain why the amount of undigested food in gullet and organ A was the same (1m)

_____

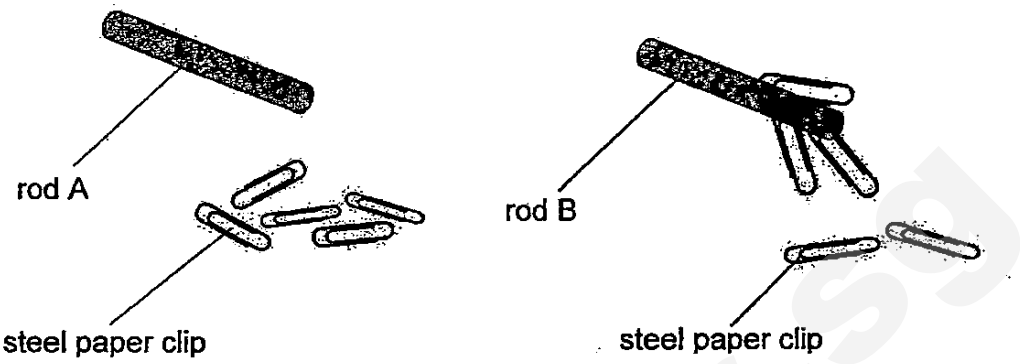
_____

_____

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34. (a) Bryan had two similar rods, A and B. He stroked both rods with a bar magnet and placed each rod above some steel paper clips. The diagram below shows the result of his test.

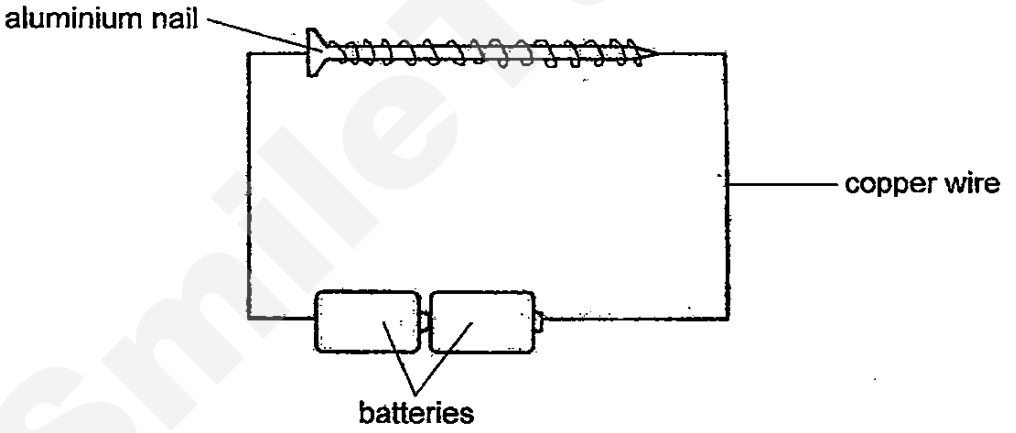


Which rod, A or B, could be made from a magnetic material? Explain your answer. (1m)

_____

_____

(b) Bryan then arranged the set–up as shown below to make an electromagnet.



(i) The nail was then brought near the steel paper clips. However, the nail could not attract any steel paper clips. Explain why. (1m)

_____

_____

(ii) What must Bryan do to his set–up so that the nail could attract the steel paper clips? (1m)

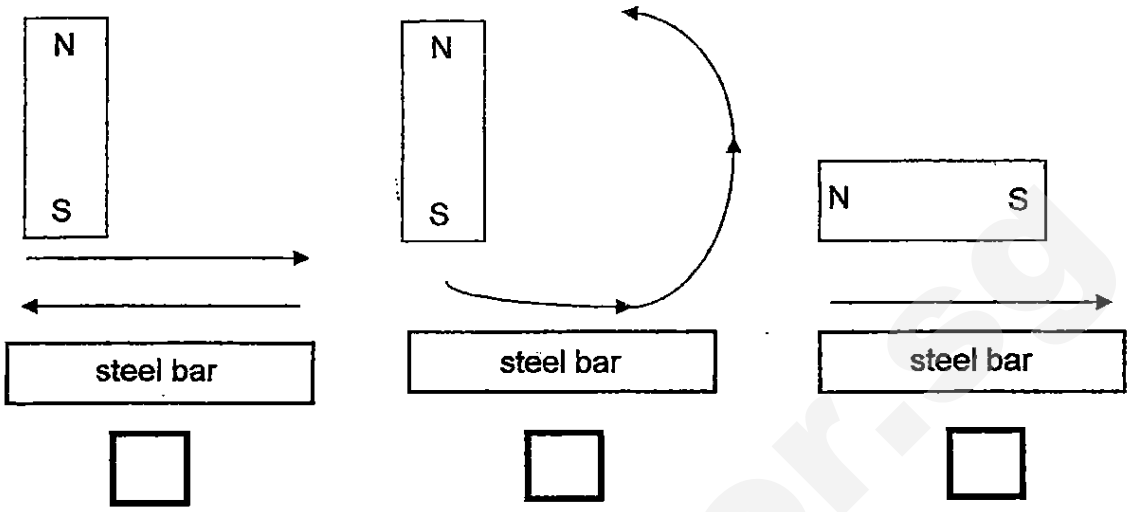
_____

_____

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35. Regina used the stroke method to magnetise a piece of steel bar.

(a) Which stroking method below allows the steel bar to be magnetised? Put a tick (✓) for the correct method in the box provided. (1m)



(b) She repeated the same experiment a few times but varied the number of strokes on the bar. The table below shows the number of iron pins the magnetised bar attracted.

Number of strokes	Number of iron pins attracted
30	3
40	5
50	6
60	9

(i) What is the relationship between the number of strokes and the magnetic strength of the bar? (1m)

_____

_____

(ii) What must Regina do to the bar in order to attract 15 iron pins?

_____

_____

– End of Paper –

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EXAM PAPER 2015
LEVEL : PRIMARY 3
SCHOOL : TAO NAN SCHOOL
SUBJECT : SCIENCE
TERM : SA2

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
4	1	3	1	2	3	4	1	3	3
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
3	1	4	4	2	2	4	2	3	3
Q21	Q22	Q23	Q24	Q25					
1	2	4	4	3					

Q26a. Plant A will die, there is no water for the plant to stay alive.

Q26b. **SEE CHART - next page**

Q27a. The insects group. Q27b. Both have six legs.

Q27c. The ant has no wings while the dragonfly has wings.

Q28a. Material G. It can hold the most number of bricks until it broke.

Q28b. Mass of each brick / Material of the pillar / Thickness of the material

Q29a. Break easily – B Q29a. Does not break easily – A , C , D

Q29b. Material C is waterproof.

Q30a. The leaves can trap more sunlight to make more food for the plant.

Q30b. (i) Stomata (ii) It helps to exchange gases.

Q31a. (i) 400 (ii) 500

Q31b. Set up B. The roots were wrapped with plastic bag which is waterproof so the plant cannot take in water.

Q32a. A: skull B : rib cage C: back bone

Q32b. Part A protects the brain.

Q32c. The muscular system.

Q33a. A: Mouth B: Stomach C: Small intestine D: Large intestine.

Q33b. The gullet does not have any digestive juices to digest food.

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Q34a. Rod B. It can attract the steel paper clips but rod A did not attract anything.

Q34b. (i) The nail is not made up of a magnetic material.

Q34b. (ii) Change the aluminum nail to a steel nail.

Q35a. Steel bar

Q35b (i) The higher the number of strokes, the stronger the magnetic strength of the bar.

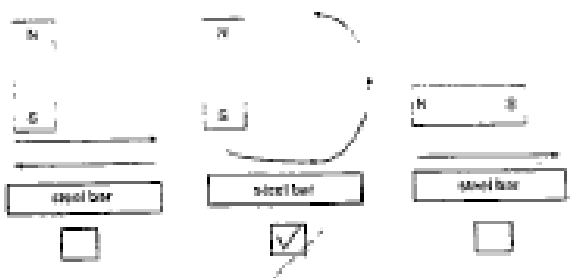
Q35b (ii) She can use the magnet to stroke more than 60 times on the bar.

Q26 b.

Observations	Characteristics of living things
A frog lays many eggs in the pond.	Living things respond to changes.
A bird feeds on the worms on the ground.	Living things grow.
A rabbit runs away quickly when it sees a tiger.	Living things need food to stay alive.
A female chick becomes a hen after three months.	Living things reproduce.

35. Regina used the stroke method to magnetise a piece of steel bar.

(a) Which stroking method below allows the steel bar to be magnetised? Put a tick (✓) for the correct method in the box provided. (1m)



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