RIVER VALLEY PRIMARY SCHOOL
2019 SEMESTRAL ASSESSMENT 2 (SA2)
PRIMARY 3

SCIENCE

(BOOKLET A)

Name : _____ ( ) Date : 30/10/2019 (Wed)

Class : P3 _____ Time: 1 hour

INSTRUCTIONS TO CANDIDATES

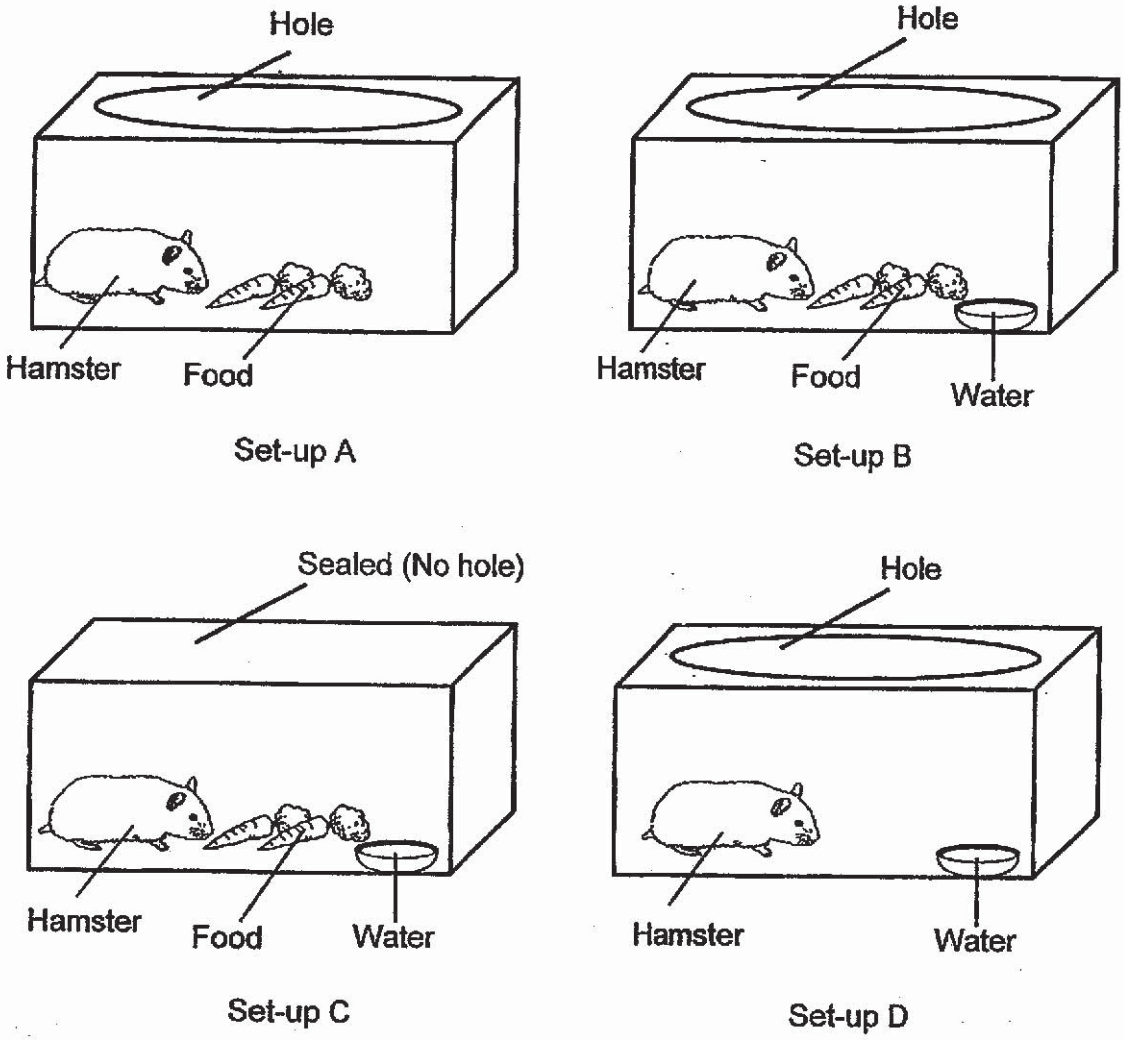
1. Write your name, index number and class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For Section A, shade your answers for questions 1 to 15 on the Optical Answer Sheet (OAS).
6. For Section B, write your answers for questions 16 to 23 in the space provided.
7. The total marks for Booklet A is 30 marks.

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Section A: (30 marks)

For questions 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 wanted to keep a pet hamster.



Which set-up, A, B, C or D, is the **most** suitable to keep her pet hamster?

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

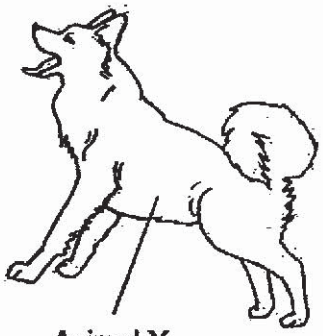
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2. John went for a walk in the park and saw two animals, Animal **X** and Animal Y.



Animal **X**



Animal **Y**

When Animal **X** saw Animal **Y**, it quickly ran away.

Based on the actions of Animals X and Y, which of the following characteristics of living things does Animal **X** show?

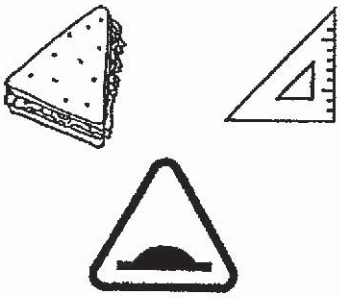
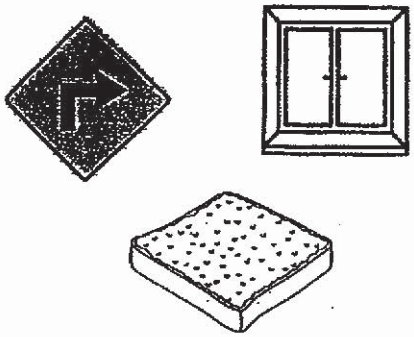
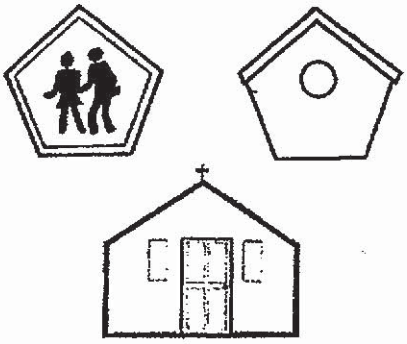
A. Animal X can grow.
B. Animal X can move on its own.
C. Animal X responds to changes around it.

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

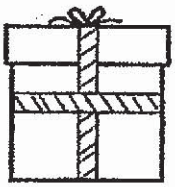
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3. Study the objects in Groups **A, B, C** and **D** carefully.

Group A	Group B
	
Group C	**Group D**
	

In which group, **A, B, C** or **D**, should the following object be placed?

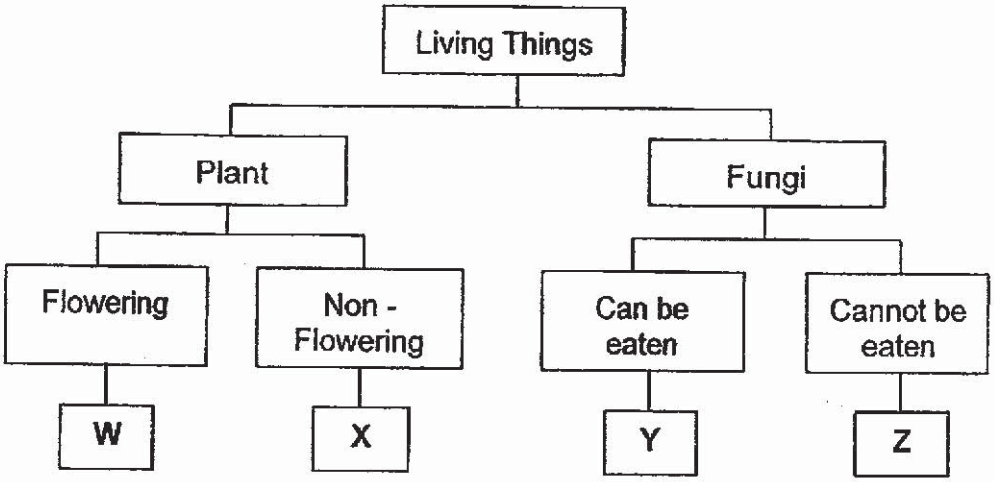


(1) A
(2) B
(3) C
(4) D

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4. Study the classification chart below.



Based on the classification chart, four pupils made the following statements.

Anne : Both **W** and **X** are plants.
Bala : Both **X** and **Y** are living things.
Caining : Both **W** and **Y** have flowers.
Dinesh : Both **X** and **Z** can be eaten.

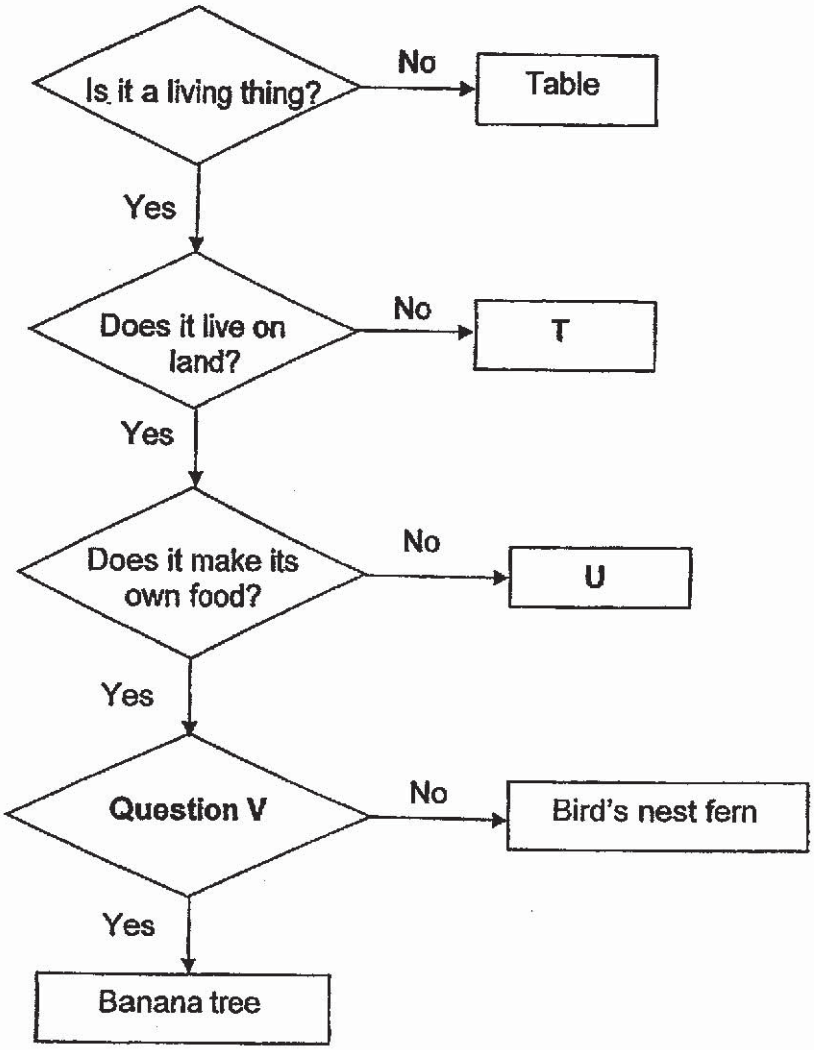
Whose statements are true?

(1) Anne and Bala only.
(2) Anne and Caining only.
(3) Anne, Bala and Caining only.
(4) Anne, Bala and Dinesh only.

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5. Study the flowchart below carefully.



Based on the flowchart above, what could **T**, **U** and **Question V** be?

	T	U	Question V
(1)	Reptile	Mushroom	Does it reproduce from spores?
(2)	Fish	Bread Mould	Does it reproduce from seeds?
(3)	Amphibian	Yeast	Does it reproduce from seeds?
(4)	Insect	Green bean plant	Does it reproduce from spores?

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6. Study the classification table shown below. Which of the organisms have **not** been correctly classified?

Living Things		
Group **P**	Group **Q**	Group **R**
Dog	Mushroom	Tree
Bird	Mould	Fern
Butterfly	Yeast	Fish

(1) Mould
(2) Yeast
(3) Fern
(4) Fish

( )

7. The table below shows the characteristics of four animals - **L**, **M**, **N** and **P**.

Animal	Lays eggs	Has scales	Lives on land	Feeds young with milk
L	✓	✓	✓	
M			✓	✓
N	✓	✓		
P	✓		✓	

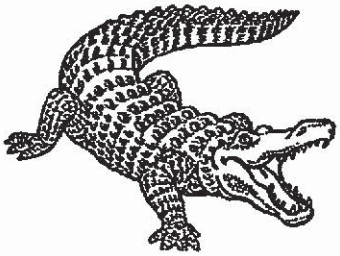
Based on the above table, which one of the following statements is **false**?

(1) Animal N could be fish.
(2) Animal M could be a mammal.
(3) Animals L and P could be reptiles.
(4) Animal P could be a bird or an insect.

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8. Observe the two animals shown below.



Reptile



Amphibian

Which of the following statements about the two animals is/ are **correct**?

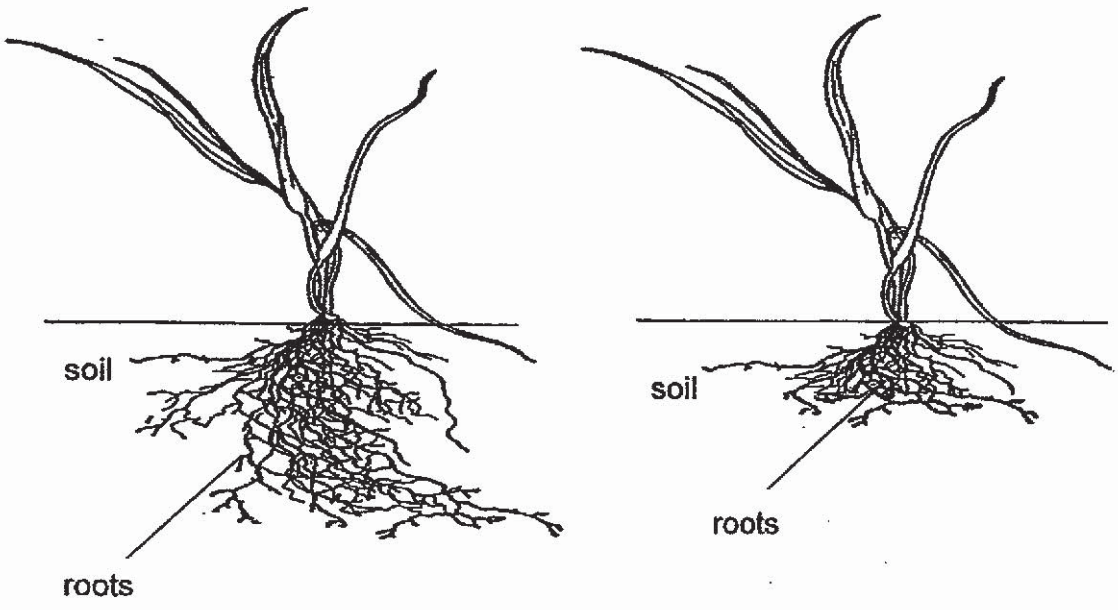
A. Both animals have four legs.
B. Both animals reproduce by laying eggs.
C. Both animals have scales as their body covering.
D. The reptile has scales while the amphibian has moist skin.

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

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9. The diagram below shows two plants, Plant A and Plant B.



Plant A **Plant B**

The roots of Plant A function better than that of Plant B because they can _____.

A. absorb more water from the soil.

B. hold the plant more firmly to the ground.

C. trap more sunlight to make food for the plant.

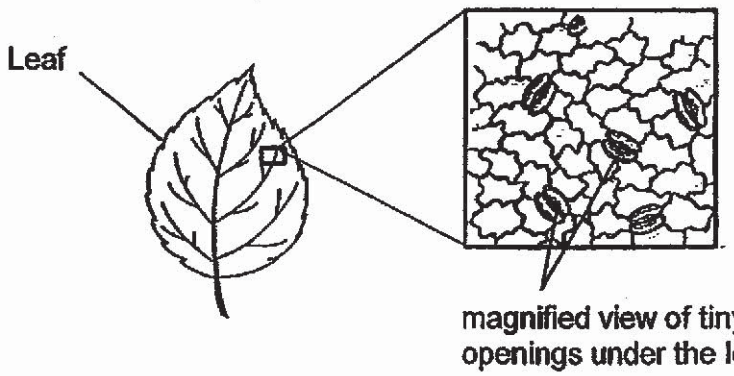
D. transport more food to the other parts of the plant.

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

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10. The diagram below shows some tiny openings found under a leaf.



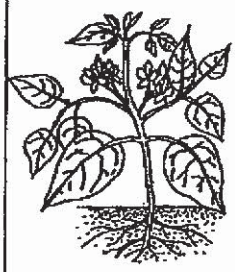
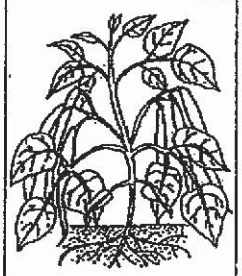
Which of the following statements is **correct** about the tiny openings found under the leaf?

(1) They take in and give out air.
(2) They provide support for the leaf.
(3) They take in water and mineral salts.
(4) They take in sunlight for making food.

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11. Study the pictures below carefully.

A	B	C	D	E
				
The leaves appear.	The shoots appear.	The flowers appear.	The roots appear.	The fruits appear.

Based on the pictures above, which of the following shows the correct stages of growth in the life cycle of a flowering plant?

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

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12. Jane observed three animals, **A**, **B**, and **C** over a period of time and recorded her observations in a table as shown below.

Observation	Animal A	Animal B	Animal C
Young resembles the adult		√	
Adult and young live on land		√	√
Has 3 stages in its life cycle	√	√	
Moults several times at one stage in its life cycle		√	√

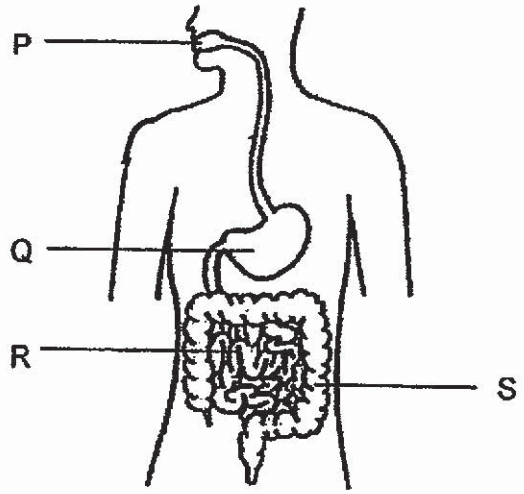
Based on her observations in the table above, which of the following **most likely** represent Animals A, B and C?

	Animal A	Animal B	Animal C
(1)	Frog	Grasshopper	Mosquito
(2)	Grasshopper	Cockroach	Beetle
(3)	Frog	Cockroach	Butterfly
(4)	Cockroach	Beetle	Butterfly

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13. The diagram below shows the human digestive system.



At which of the following part/s (P, Q, R or S) does digestion occur?

(1) P and Q only
(2) Q and R only
(3) Q, R and S only
(4) P, Q, and R only

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14. Michael wanted to make a temporary magnet. Which of the following objects can be turned into a temporary magnet?

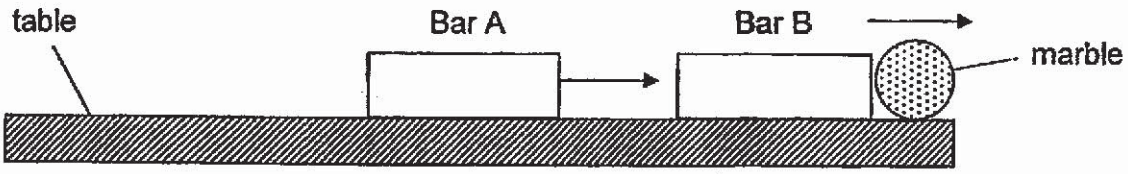
A. A plastic ruler
B. A steel bar
C. An iron rod

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

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15. Look at the diagram below.



When Bar A is moved towards Bar B, Bar B moves and pushes the marble off the table. What could be the explanation for such an observation?

(1) Bars A and B are magnets with like poles facing each other.

(2) Bars A and B are magnets with unlike poles facing each other.

(3) Bar A is a magnet while Bar B is made of a magnetic material.

(4) Bar B is a magnet while Bar A is made of a magnetic material.

( )

~End of Section A~

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RIVER VALLEY PRIMARY SCHOOL
2019 SEMESTRAL ASSESSMENT 2 (SA2)
PRIMARY 3

SCIENCE

(BOOKLET B)

Name : _____ ( ) Date : 30/10/2019 (Wed)

Class : P3 _____ Time : 1 hour

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 on the OAS.
6. For Section B, write your answers for questions 16 to 23 in the space provided.
7. The total marks for Booklet B is 20 marks.

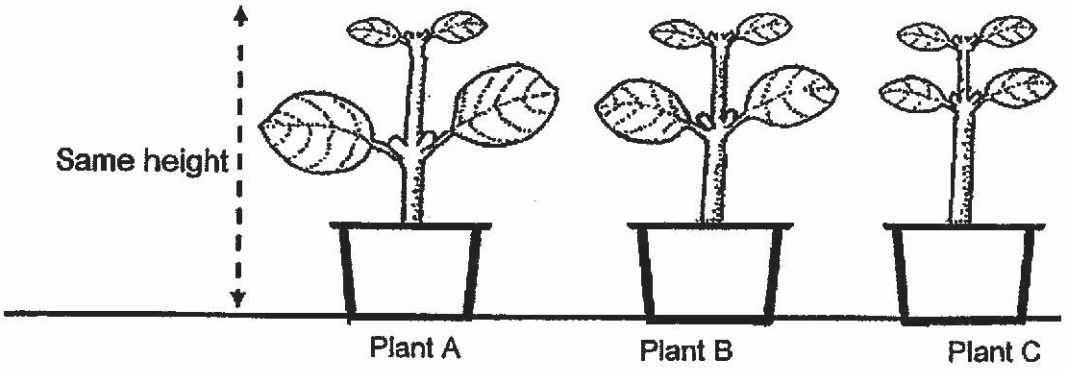
Booklet A	30
Booklet B	20
Total	50

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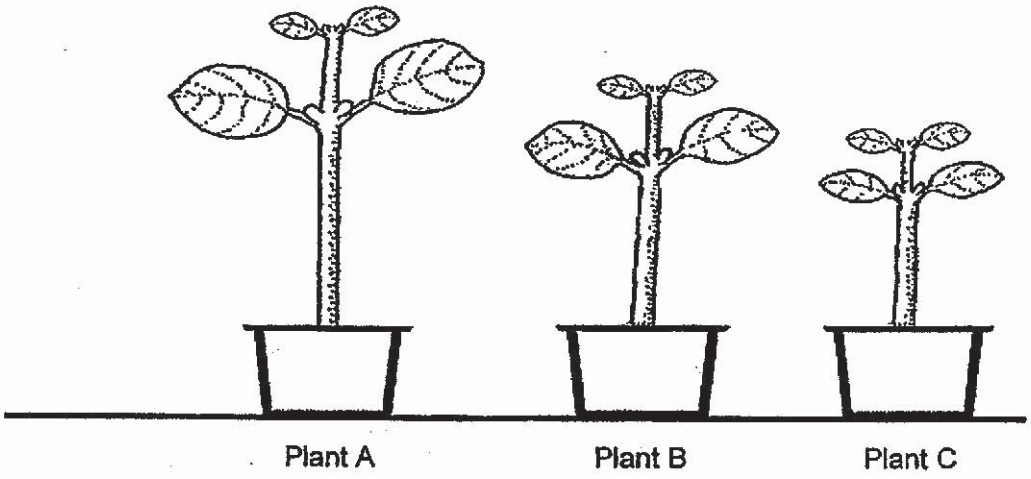
Section B (20 marks)

Write your answers to questions 16 to 23 in this booklet.

16. Sam wanted to find out if the size of leaves affects how fast a plant grows. He found three similar healthy plants with leaves of different sizes as shown below. He placed them in the same spot and watered them daily.



One week later, he checked his set-ups and noticed that the plants in the 3 set-ups grew to different heights as shown below.



a) After comparing the size of the leaves with the height of the plant, Sam concludes that when the leaves are _____, the height of the plant _____. (1m)

b) Should Sam place the plants in a dark room or in the garden to ensure that they grow healthily? Explain your answer. (2m)

_____

_____

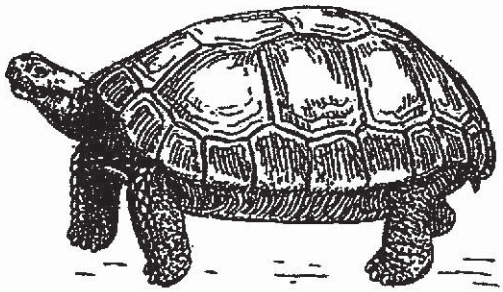
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17. The pictures below show two animals, Animal X and Animal Y.



Animal X



Animal Y

a) State one similarity between how Animal X and Animal Y reproduce. (1m)

_____

b) In which animal group would you classify Animal X? Based on the picture, state two characteristics that Animal X has to support your answer. (2m)

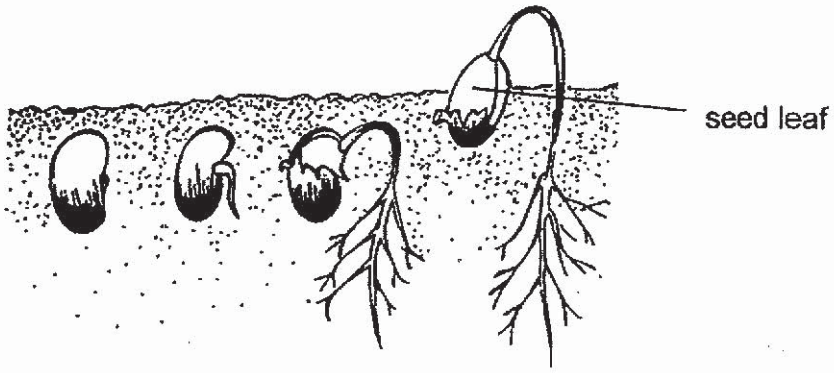
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18. The students in Miss Loy's class observed how some seeds germinated as shown below.



Two students, A and B, observed the growth of the seeds and recorded the mass of the seed leaves in the tables below.

Student A				
Day	**3**	**7**	**10**	**13**
Average mass of the seed leaves (g)	4	5	8	11

Student B				
Day	**3**	**7**	**10**	**13**
Average mass of the seed leaves (g)	4	3	2	1

a) Which student, A or B, recorded the changes in the mass of the seed leaves correctly? (1m)

_____

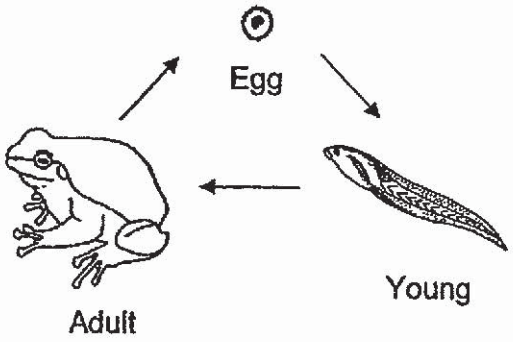
b) Give a reason for your answer in (a). (1m)

_____

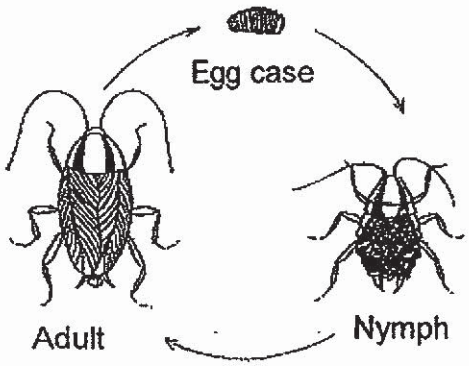
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19. The diagram below shows the life cycles of two animals.



Life cycle Animal **X**



Life cycle of Animal **Y**

a) **<u>Based on the number of stages</u>**, state one similarity between the life cycles of these two animals. (1m)

_____

b (i) **<u>Based on the appearance of the young and the adult</u>**, state one difference between the two animals. (1m)

_____

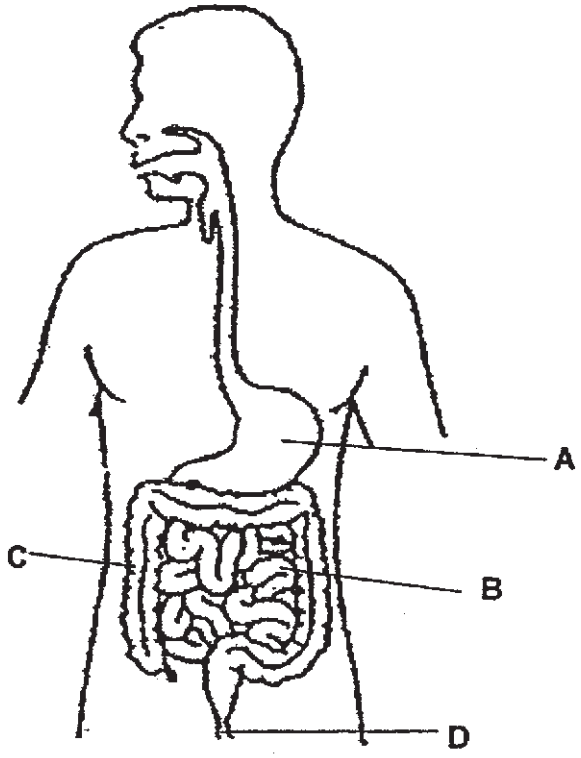
(ii) **<u>Based on where the young lives</u>**, state one difference between the two animals. (1m)

_____

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20. The diagram below shows parts of the human digestive system.



a) Name the part labelled **C** and state its function. (1m)

_____

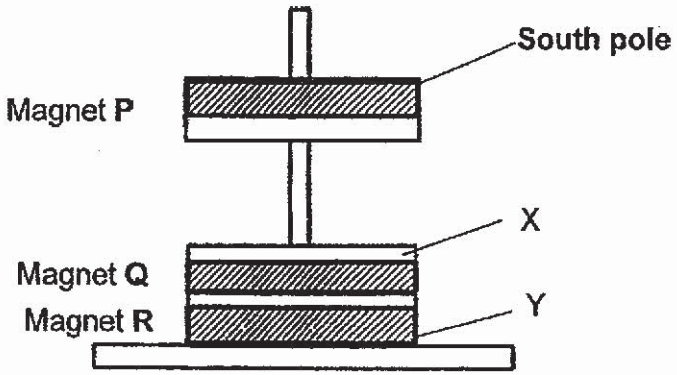
b) What will happen to the food if the part labelled **B** is not functioning properly? (1m)

_____

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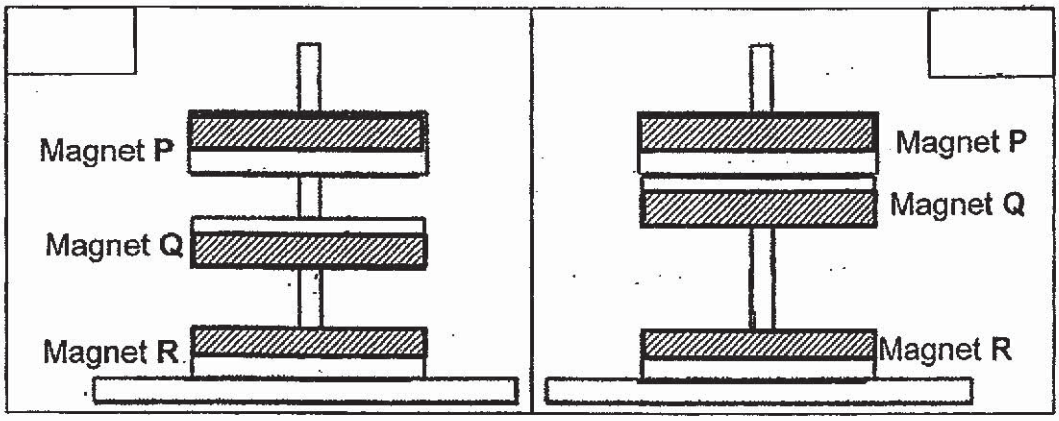
21. In an experiment, three ring magnets **P**, **Q** and **R**, are placed in the positions shown in the diagram below.



a) State the poles of the parts labelled X and Y of magnets Q and R respectively as shown in the diagram above. (1m)

X: _____ Y: _____

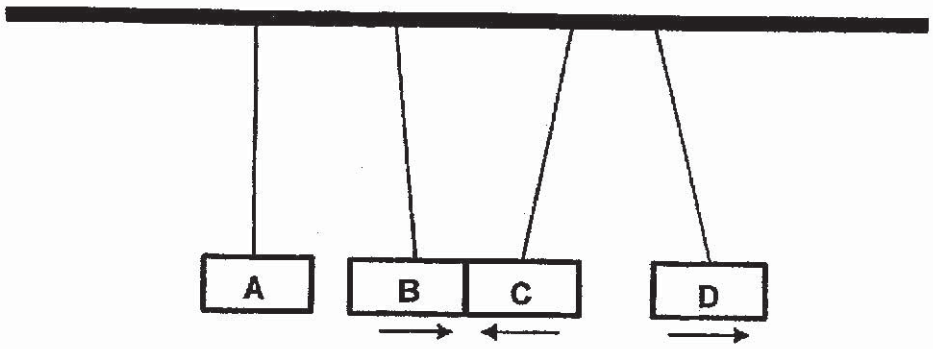
b) Put a tick (√) in the diagram below that correctly shows what will happen when magnet **R** is reversed. (1m)



	2

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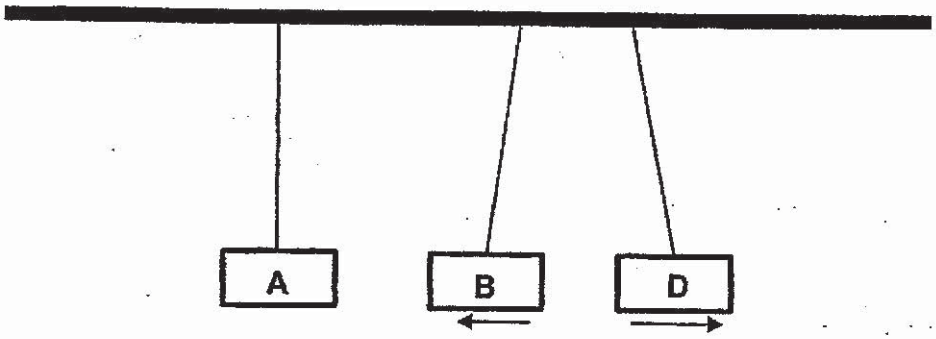
22. Four objects of unknown material are hung on strings as shown below.



a) Based on the observations above, what can be concluded about the four objects? Put only one tick (√) in the correct boxes for object A, B, C and D in the table below. (2m)

Object	Magnet	Magnetic	Not able to tell
A			
B			
C			
D			

b) If object C was removed and object D was moved nearer to object B, it was observed that object B moved away from object D.



What can you conclude about object B? Explain your answer. (1m)

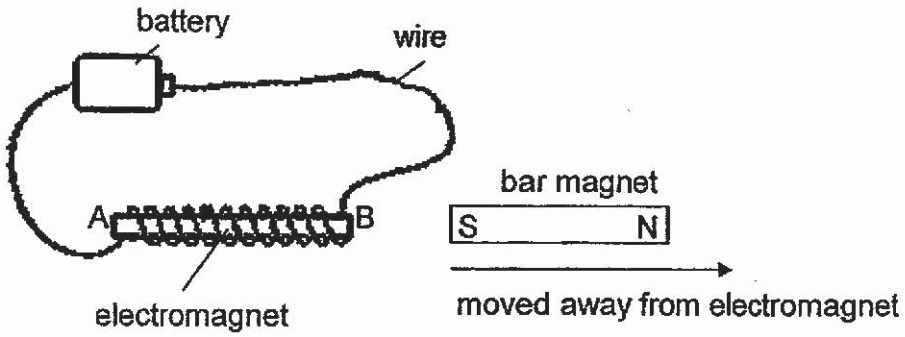
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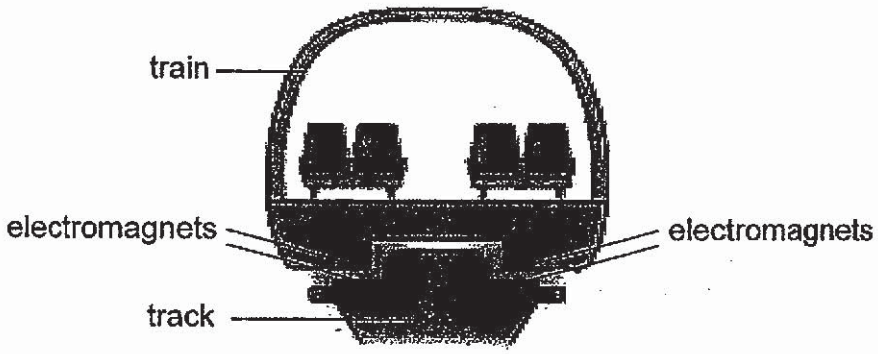
23. The experiment below shows what happened when the South pole of a bar magnet was brought close to an electromagnet.



a) State the pole of the part labelled **B** of the electromagnet. (1m)

_____

The diagram below shows a train that is lifted off the track with the help of electromagnets placed below the train.



b) Based on the experiment above, explain how the electromagnets help to lift the train off the track. (1m)

_____

_____

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SCHOOL : RIVER VALLEY PRIMARY SCHOOL

LEVEL : PRIMARY 3
SUBJECT : SCIENCE
TERM : 2019 SA2

BOOKLET A

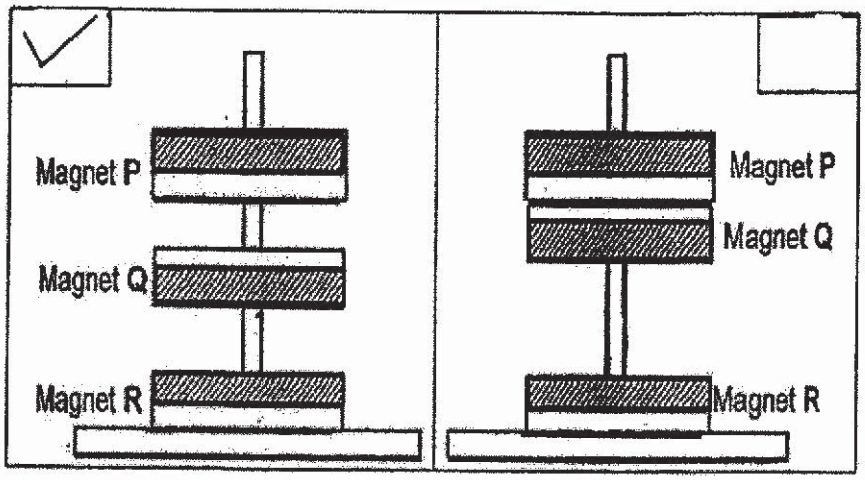
Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	3	2	1	2	4	3	3	2	1
Q11	Q12	Q13	Q!4	Q15					
4	3	4	3	1					

BOOKLET B

Q16)	a)bigger , grow b)Sam should place the plants in the garden. The plants need sunlight to make food.
Q17)	a)Both animal X and Y lay eggs. b)Animal X is an insect because it has six legs.
Q18)	a)B b)As the seed leaves provide food for the seedling , the seed leaves will decrease in mass as food.
Q19)	a)Both animals X and Y have three stages in their life cycle. bi)The young of animal Y resembles its adult but the young of animal X does not resemble its adult . ii)The young of animal Y lives on land but the young of animal X lives in water.
Q20)	a)Large intestine. b)The food will not be compete digest and will not be absorbed into the bloodstream.

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Q21)	a) X : North pole Y : South pole b) 
Q22)	a)A / Not able to tell B / Not able to tell C / Magnet D / Magnet b)Object B is a magnet. Object B repel object D.
Q23)	a)South pole. b)The like poles of the electromagnets are facing each other, so they repel.

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