



RED SWASTIKA SCHOOL

SCIENCE 2019 SEMESTRAL EXAMINATION 2 PRIMARY 3

Name : _____ ()

Class : Primary 3/ _____

Date : 29 October 2019

BOOKLET A

Total time for Booklets A & B: 1h 30 min

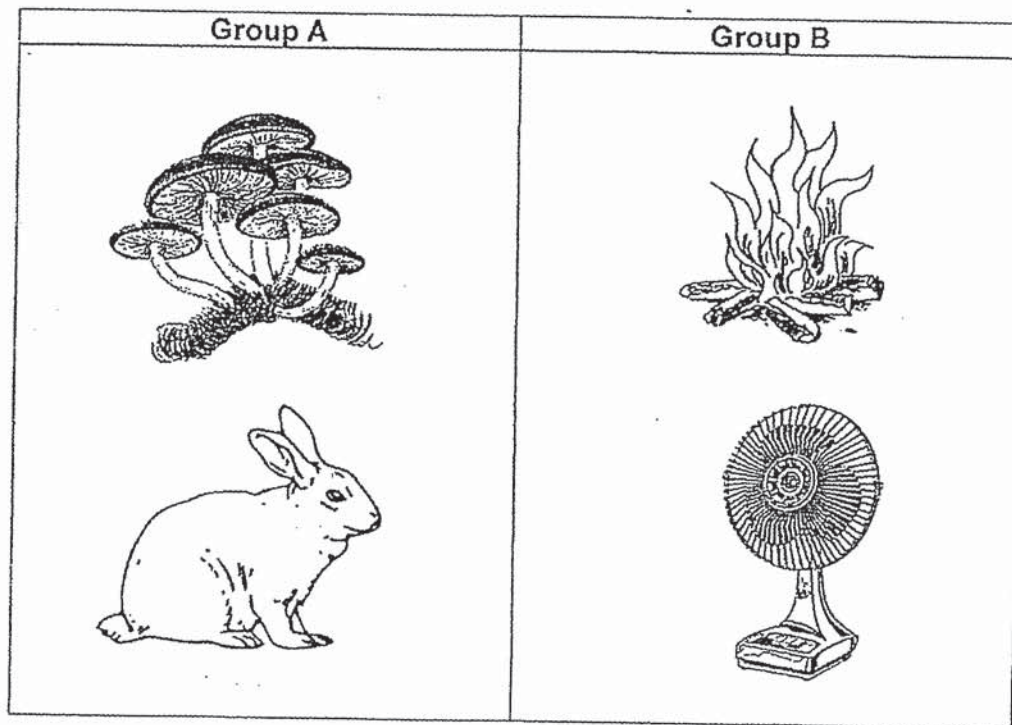
Booklet A: 15 questions (30 marks)

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 15

For Questions 1 to 15, choose the most suitable answer and shade its number in the OAS provided.

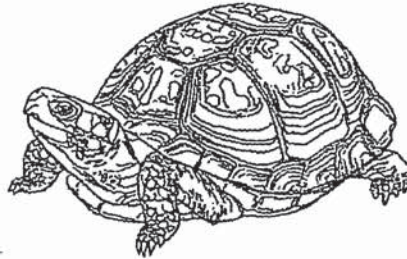
1. Study the two groups shown below.



Which of the following statements is correct?

- (1) Group A can respond to changes.
- (2) Group B needs air, food and water.
- (3) Both Group A and Group B can grow
- (4) Both Group A and Group B can reproduce.

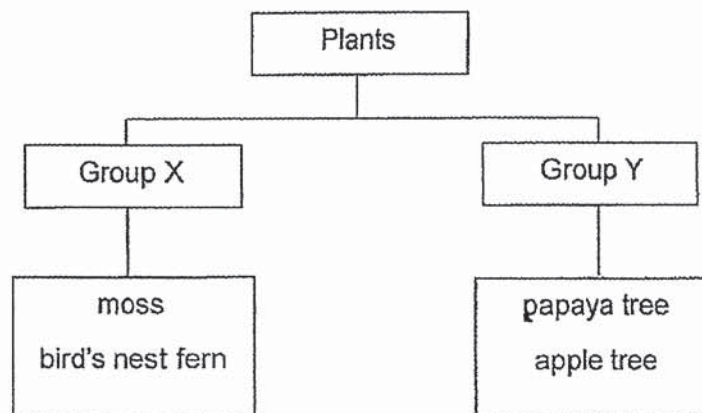
2. When the tortoise is touched, it hides inside its shell.



Which characteristic of living things is shown by the tortoise?

- (1) Living things can grow.
- (2) Living things can reproduce.
- (3) Living things can respond to changes.
- (4) Living things need air, food and water.

3. Jane classified the following plants into two groups as shown below.



Which of the following are possible headings for Groups X and Y?

	Group X	Group Y
(1)	Have only one seed	Have many seeds
(2)	Do not have fruits	Have fruits
(3)	Cannot make food	Can make food
(4)	Grow on land	Grow in water

4. The table below shows the characteristics of two groups of living things, A and B. A tick (✓) indicates that a characteristic is observed and a cross (X) indicates that it is not observed.

Characteristics	A	B
able to make food	✓	X
has spores	✓	✓
has flowers	X	X

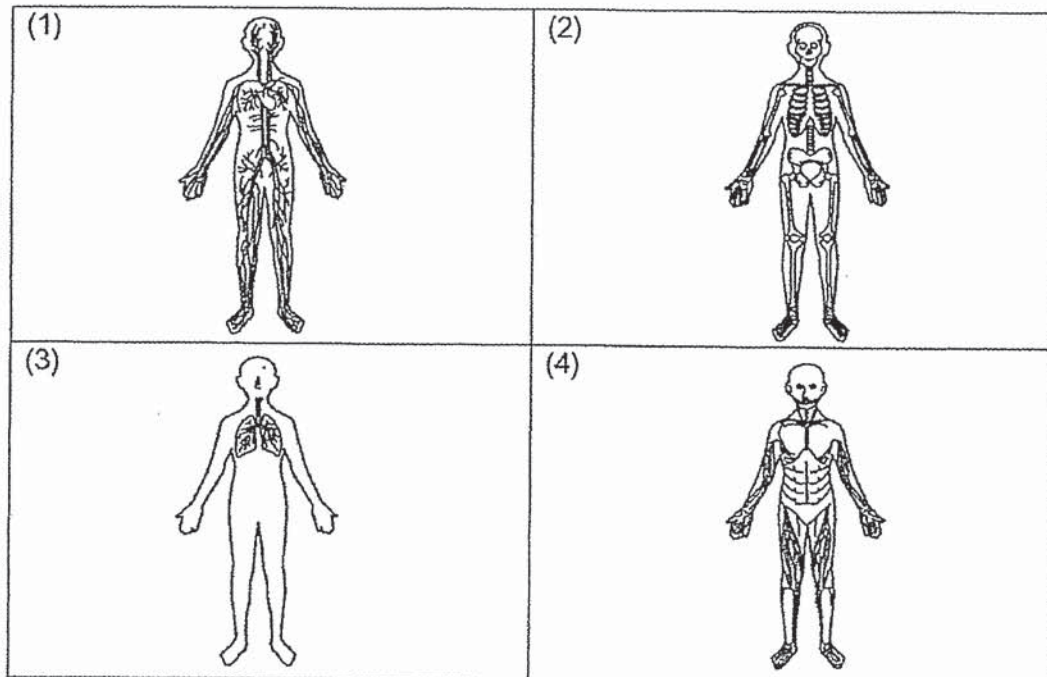
Which of the following correctly represents A and B?

	A	B
(1)	flowering plant	fungi
(2)	fungi	non-flowering plant
(3)	non-flowering plant	flowering plant
(4)	non-flowering plant	fungi

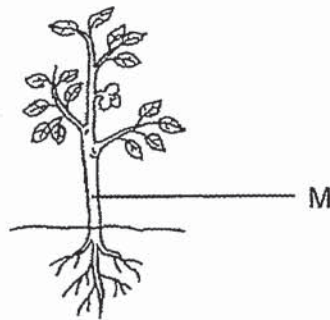
5. How do our teeth help in the digestion of food?

- (1) They help to soften the food.
- (2) They help us to swallow our food.
- (3) They produce digestive juices.
- (4) They cut food into smaller pieces.

6. Which of the following shows the human respiratory system?

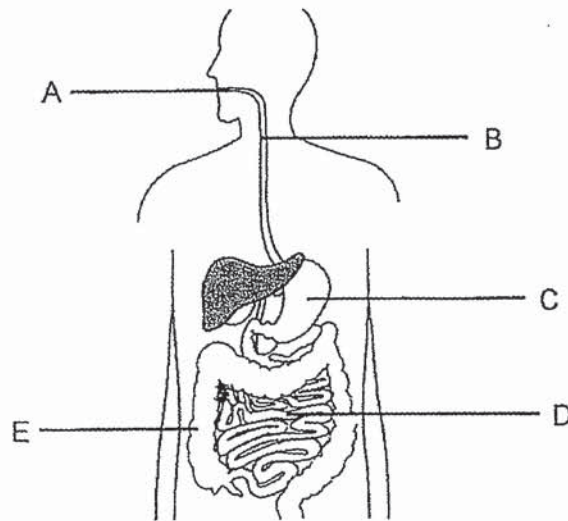


7. The diagram below shows a plant.



The function of part M is to _____.

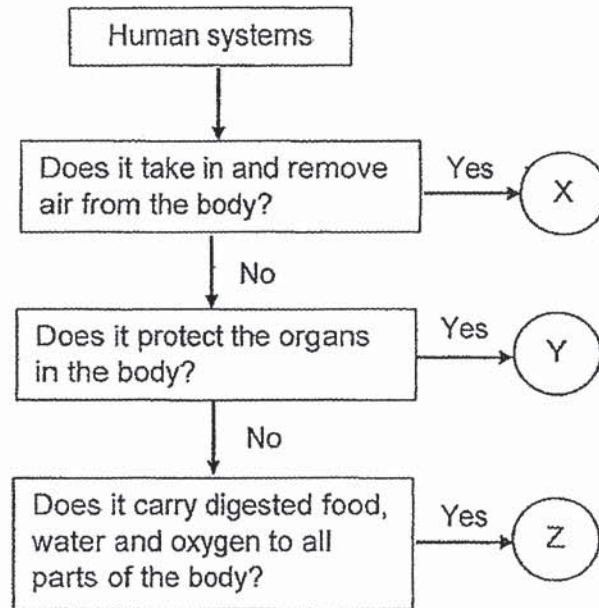
- (1) support the plant
 - (2) make food for the plant
 - (3) hold the plant firmly to the ground
 - (4) absorb water and minerals for the plant
8. The diagram below shows the human digestive system.



Which parts of the digestive system produce digestive juices?

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

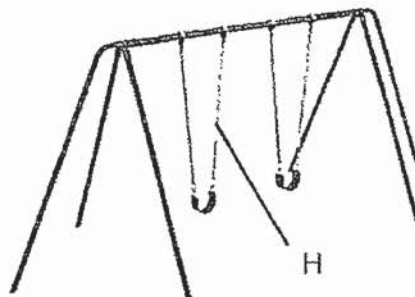
9. Study the flow chart below carefully.



Which systems do X, Y and Z represent?

	X	Y	Z
(1)	circulatory	muscular	digestive
(2)	digestive	skeletal	circulatory
(3)	respiratory	muscular	digestive
(4)	respiratory	skeletal	circulatory

10. The diagram below shows a swing at a playground.



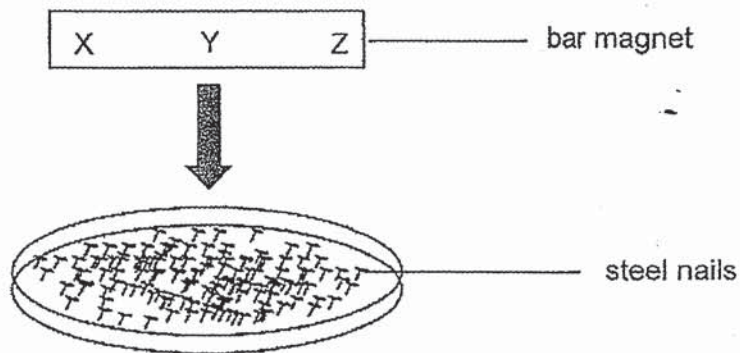
Which of the following describes the most important property in choosing the material to make part H?

- (1) H must be shiny.
- (2) H must be strong.
- (3) H must be able to float on water.
- (4) H must allow light to pass through.

11. Which of the following is a magnetic material?

- (1) iron
- (2) plastic
- (3) rubber
- (4) glass

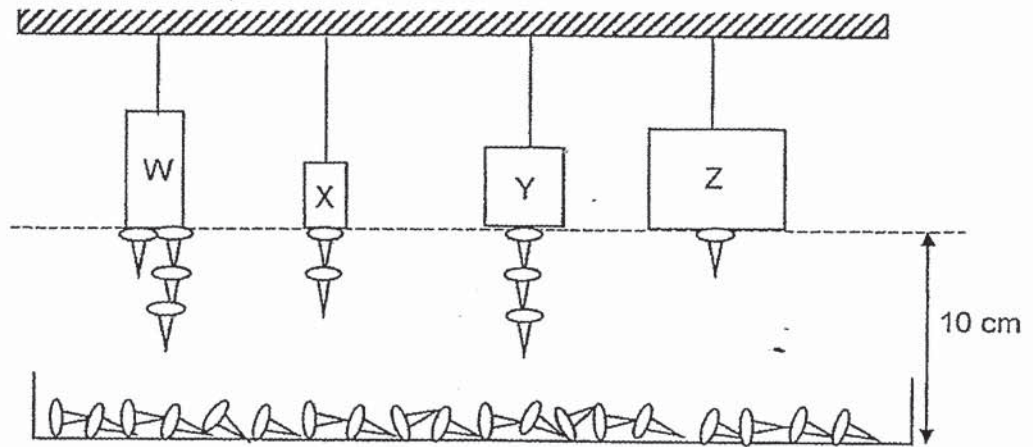
12. A bar magnet was lowered into a tray of steel nails as shown.



After a while, the bar magnet was lifted. Which of the following shows the most likely number of steel nails which were attracted to parts X, Y and Z?

	X	Y	Z
(1)	1	5	5
(2)	4	4	4
(3)	4	1	5
(4)	5	4	2

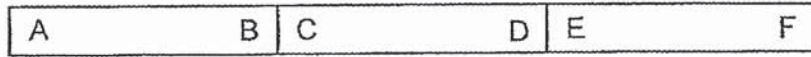
13. Jamal set up an experiment as shown below. He hung four magnets, W, X, Y and Z, at an equal distance from a tray of nails and observed the number of nails each magnet attracted.



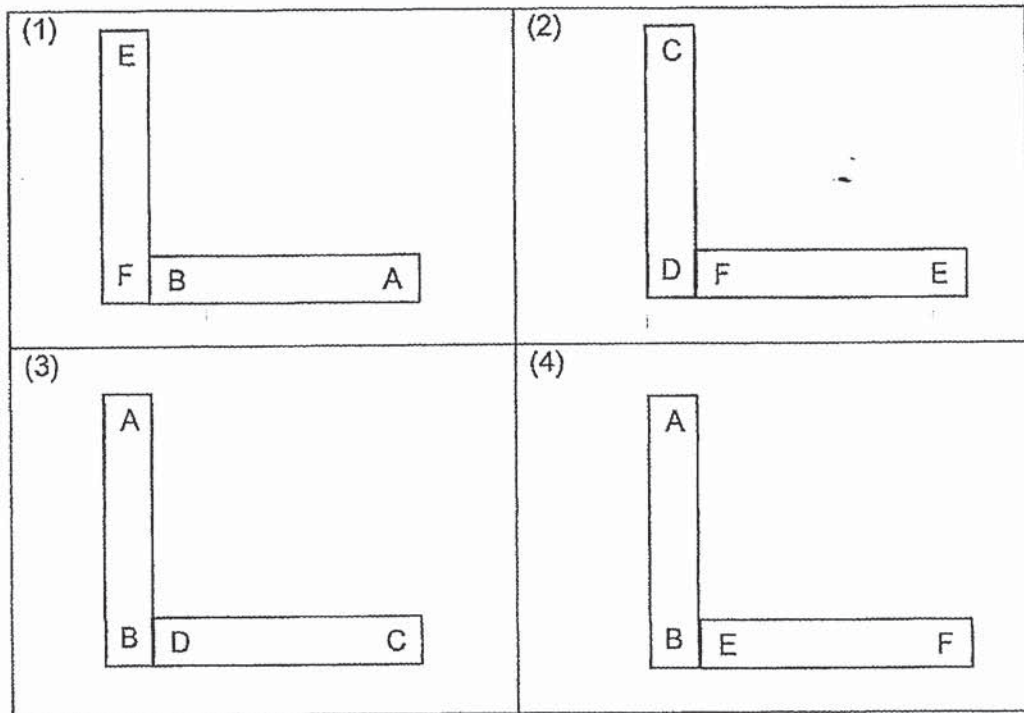
Arrange the magnetic strength of the four magnets in order, from the strongest to the weakest.

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

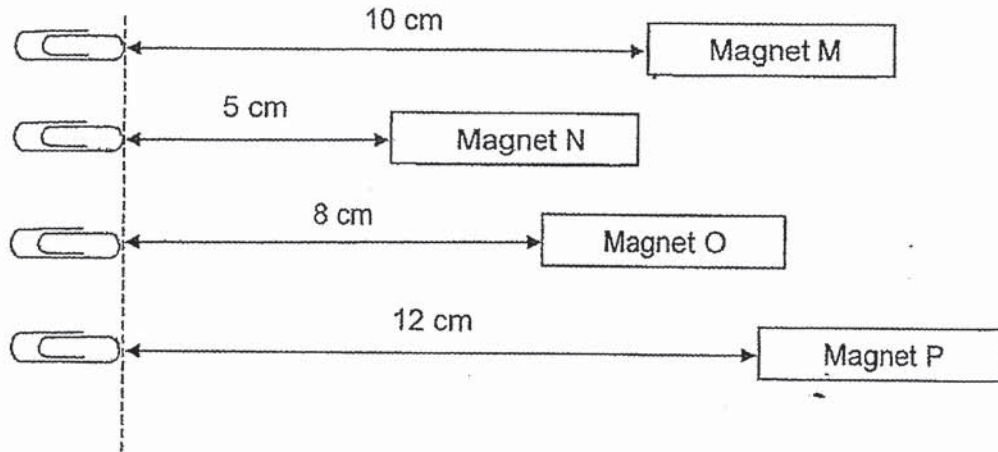
14. Three bar magnets are arranged as shown below.



Iris formed a new arrangement using only two of the magnets above. Which of the following is a possible new arrangement?



15. Devi wanted to test the magnetic strength of four different magnets, M, N, O and P. She measured the greatest distance at which they were able to attract a paper clip.



Based on the results above, which statement is correct about the magnetic strength of the magnets?

- (1) Magnet M is as strong as Magnet P.
- (2) Magnet N is weaker than Magnet O.
- (3) Magnet O is stronger than Magnet M.
- (4) Magnet P is the weakest magnet.

END OF BOOKLET A



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BOOKLET B

6 Questions
20 Marks

In this booklet, you should have the following:

- a. Page 10 to Page 16
- b. Questions 16 to 21

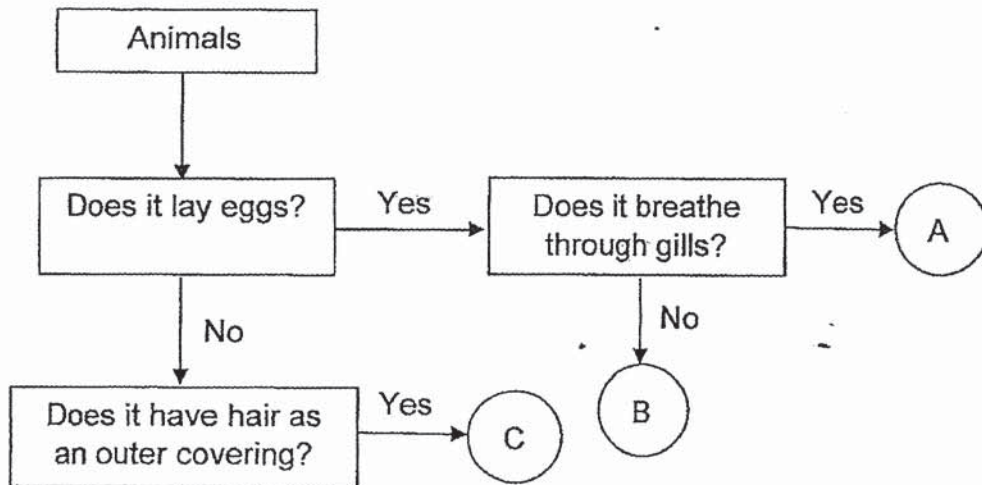
MARKS

	OBTAINED	POSSIBLE
BOOKLET A		30
BOOKLET B		20
TOTAL		50

Parent's Signature : _____

Answer all questions in the space provided.

16. Study the flow chart below carefully.

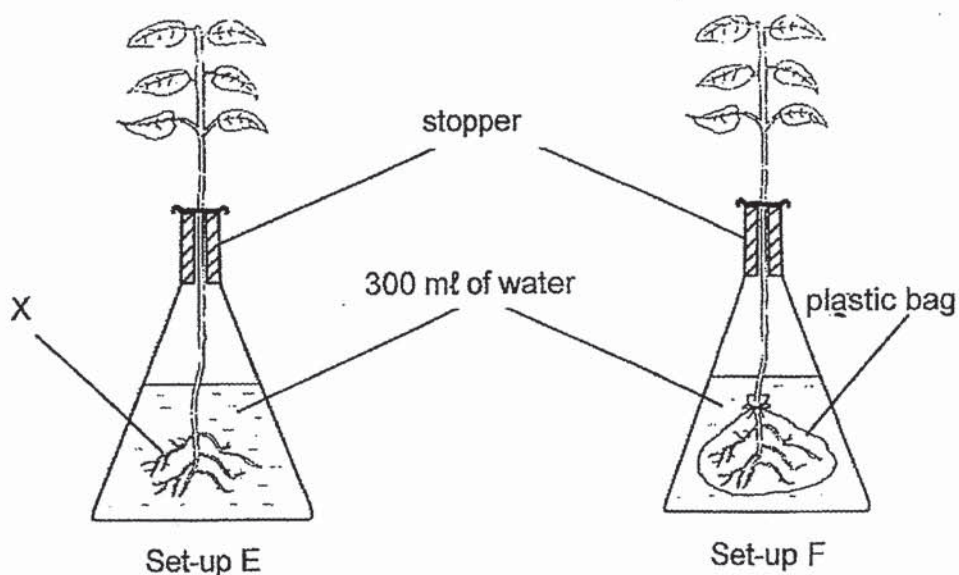


(a) Based on the flow chart, state the two characteristics of Animal A. (2m)

(b) Which animal, A, B or C, could be a chicken? (1m)

(c) Which group of animals can animal C be classified under? (1m)

17. Jane conducted an experiment with the set-ups below. She placed two similar plants into flasks containing 300 ml of water. She wrapped the roots of one plant with a plastic bag. Both set-ups were placed in a room with light.

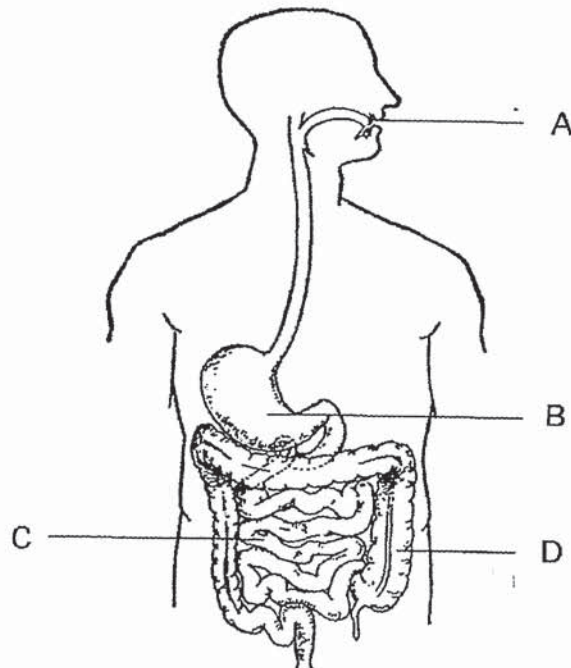


- (a) What is part X of the plant? (1m)
- _____
- (b) After a day, Jane measured the amount of water left in the containers. Complete the table by filling in the blanks with E and F. (1m)

Set-up	Volume of water left in container (ml)
	300
	260

- (c) In which set-up, E or F, will the plant survive? Explain your answer. (1m)
- _____
- _____

18. The diagram below shows the human digestive system.



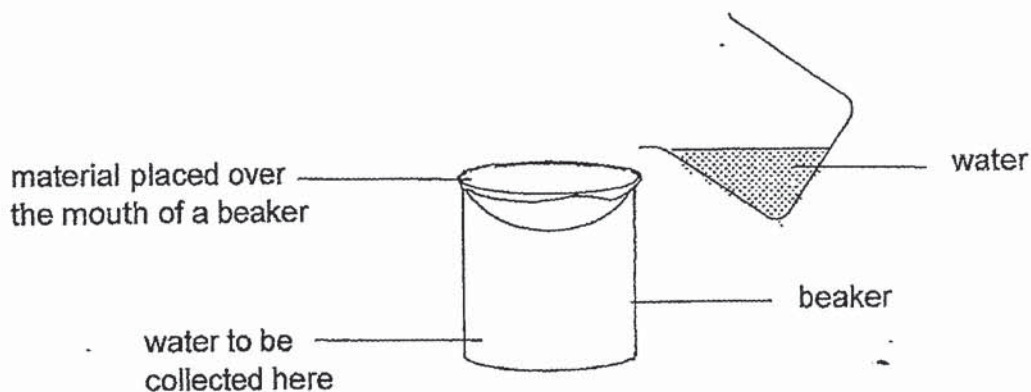
(a) In which part, A, B, C or D, does digestion first begins? (1m)

(b) In which part, A, B, C or D, is water removed from the undigested food? (1m)

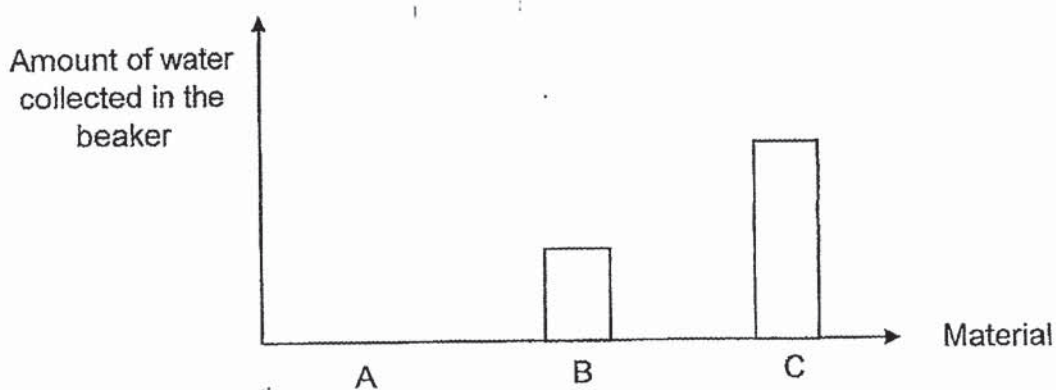
(c) Put a tick (✓) in the correct boxes for the statements below. (1m)

Statement	True	False
Food is fully digested in part B.		
Digested food passes through the walls of part C and the blood carries it to different parts of the body.		

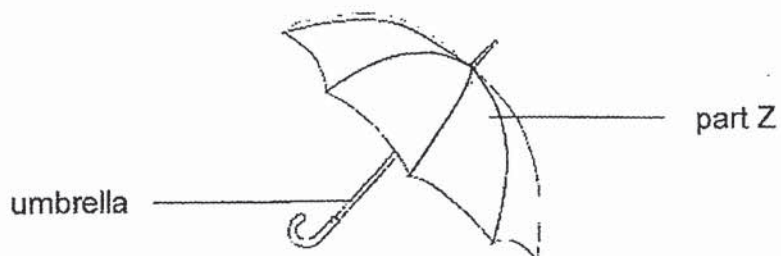
19. Shufen wanted to see how much water could be absorbed by materials A, B and C. She placed each material over the mouth of a beaker and poured water over each material. She then observed the volume of water collected in the beaker.



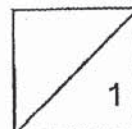
The graph below shows the volume of water collected in the beaker each time water was poured over materials A, B and C.



Shufen wanted to make part Z of the umbrella below.

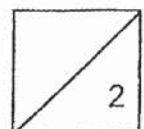


- (a) Based on the graph above, which material, A, B or C, is most suitable to make part Z? (1m)

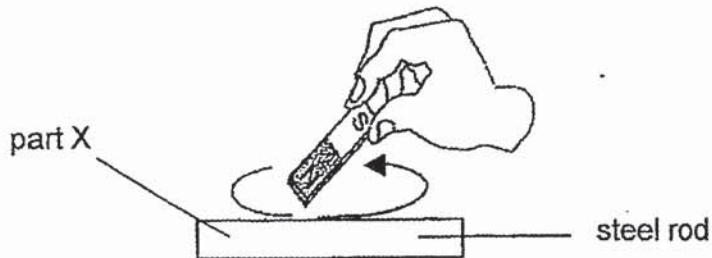


19. (b) Give a reason for your answer in part (a). (1m)

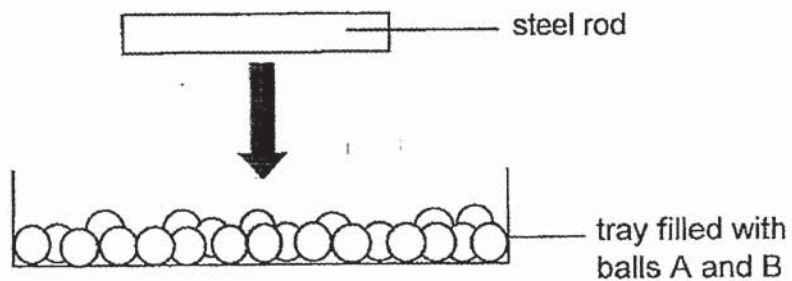
(c) Give an example of a material for material A. (1m)



20. Ryan used a magnet to stroke a steel rod as shown below.



He then placed the steel rod over a tray which was filled with two types of balls, A and B. All the balls weigh the same.



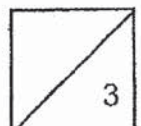
Ryan then recorded his observations in the table below.

Ball	Number of balls attracted to the steel rod
A	4
B	0

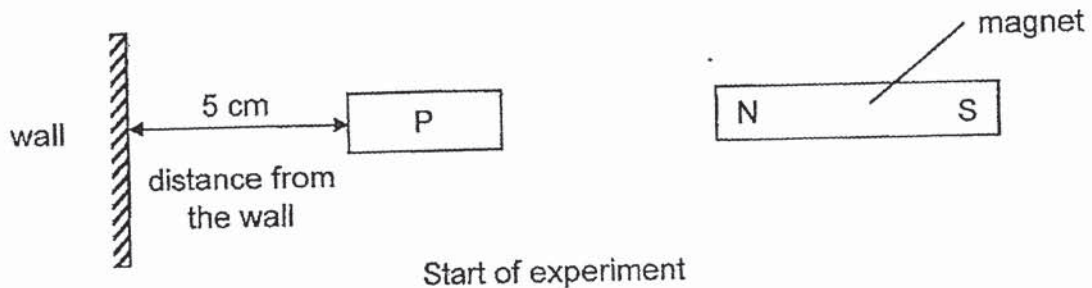
(a) Give an example of a material that ball B may be made of. (1m)

(b) By using the stroke method, what can Ryan do to the steel rod to increase the number of ball A attracted to it? (1m)

(c) Identify the pole at part X of the steel rod. (1m)



21. Jill had three objects, P, Q and R, which were all of the same size and shape. Object P was first placed 5 cm away from a wall. Jill then placed a magnet near P and observed how the distance from the wall changed.



She did the same for objects Q and R. She recorded her observations in the table below.

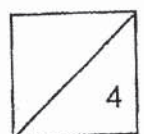
Object	Distance from the wall (cm) after a magnet was placed near the object
P	9
Q	5
R	3

- (a) Based on the table, which object, P, Q or R, is most likely a magnet? (1m)

- (b) Explain your answer for part (a). (2m)

- (c) Based on the table, which object, P, Q or R, is not magnetic? (1m)

**END OF BOOKLET B.
PLEASE CHECK YOUR WORK.**



ANSWER KEY

YEAR : 2019
LEVEL : PRIMARY 3
SCHOOL : RED SWASTIKA SCHOOL
SUBJECT : SCIENCE
TERM : SA2

SECTION A

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

SECTION B

Q16a) Animal A lay eggs and breathe through gills.

Q16b) B

Q16c) Mammal

Q17a) Roots

Q17b)

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Set-up	Volume of water left in container (ml)
F	300
E	260

Q17c) E because the roots of E are not wrapped up in a plastic bag so the roots of E will absorb more water than F.

Q18a) A

Q18b) D

Q18c)

Statement	True	False
Food is fully digested in part B		✓
Digested food passes through the walls of part C and the blood carries it to different part of the body.	✓	

Q19a) A

Q19b) Because A does not absorb water.

Q19c) Plastic

Q20a) Copper

Q20b) Stroke more times to increase the number of ball A.

Q20c) North

Q21a) R

Q21b) The distance decrease because R repelled the magnet.

Q21c) Q

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END

