



**NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 – 2018
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 : 1 November 2018

Parent's signature: _____

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. Which of the following statements about living things are correct?

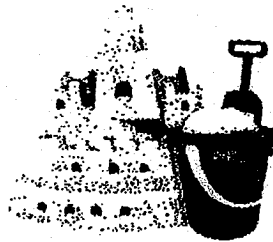
- A They can reproduce.
- B They are able to grow.
- C They only need water to survive.
- D They can move from place to place.

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

2. The pictures below show some living and non-living things.



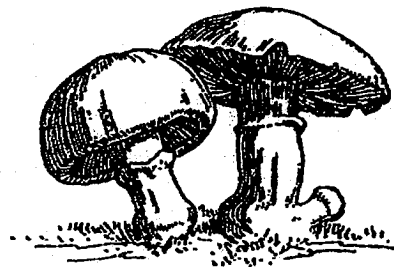
cloud



sand



leaves

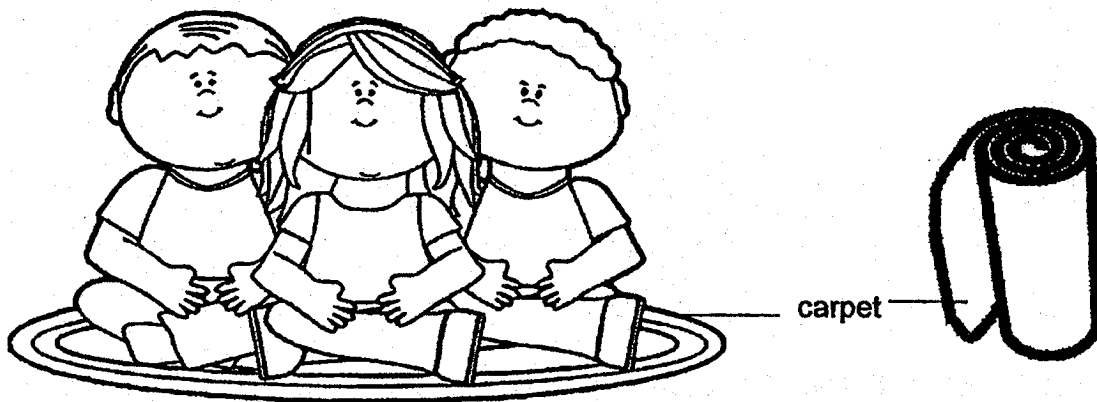


mushrooms

Which of the following thing(s) is/are alive?

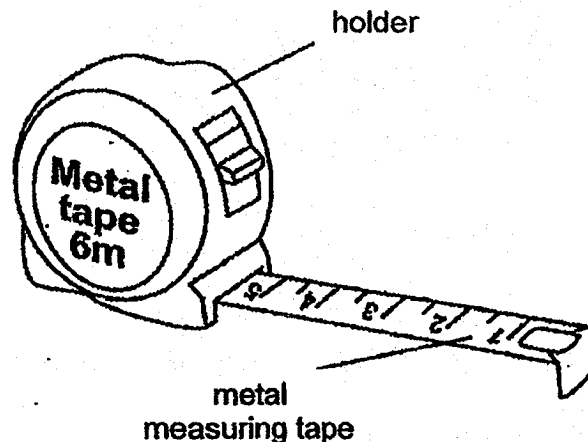
- (1) mushrooms only
- (2) sand and leaves only
- (3) leaves and mushrooms only
- (4) cloud, leaves and mushrooms only

3. The students placed a carpet on the floor of the classroom and sat on it. After using it, they rolled it up and kept it in the cupboard.



The carpet is made of fabric because fabric _____.

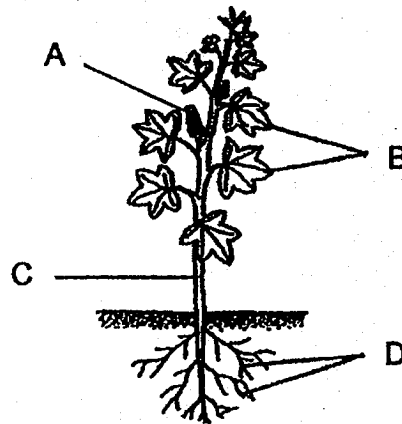
- (1) is flexible
 - (2) sinks in water
 - (3) absorbs water
 - (4) does not allow light to pass through it
4. Sam has a metal measuring tape as shown in the diagram below. He used it to find the length of a table for his new home.



Which property of the metal measuring tape allows it to be rolled up inside the holder?

- (1) The metal measuring tape is stiff.
- (2) The metal measuring tape is weak.
- (3) The metal measuring tape is strong.
- (4) The metal measuring tape is flexible.

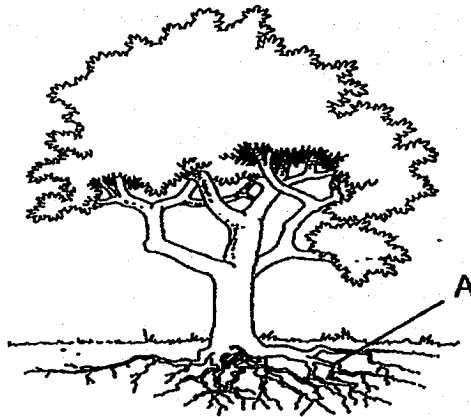
5. The picture below shows a flowering plant.



Which part, A, B, C or D, makes food for the plant?

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

6. The picture below shows a tree.

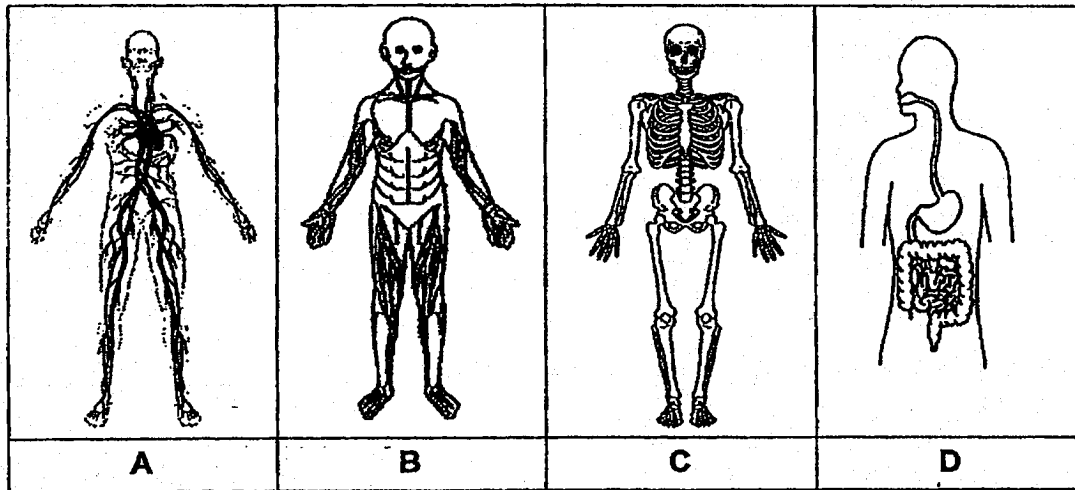


Which of the following statement(s) state(s) the function(s) of part A?

- A Make food for the plant
- B Hold the plant firmly to the ground
- C Absorb water and mineral salts from the soil
- D Carry food, water and mineral salts to all parts of the plant

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

7. The diagrams below show four body systems of a human.



Which system gives the body its shape and protects important organs?

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

8. Four pupils made the following statements about the human digestive system.

Uma	Digestion starts in the mouth.
Vilma	The small intestine stores undigested food.
Tommy	Digestion is completed in the large intestine.
Siew Leng	Water is absorbed into the body from the stomach.

Whose statement is correct?

- (1) Uma
- (2) Vilma
- (3) Tommy
- (4) Siew Leng

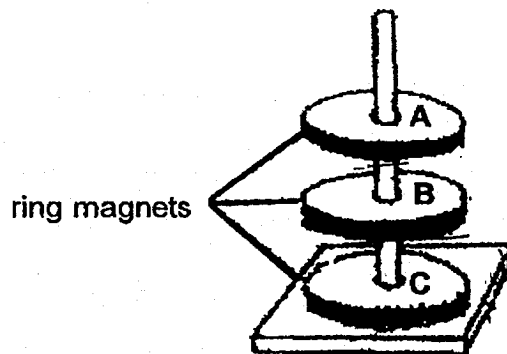
9. Digestion takes place in the _____.

- A mouth
 - B stomach
 - C small intestine
 - D large intestine
-
- (1) A and B only
 - (2) C and D only
 - (3) A, B and C only
 - (4) B, C and D only

10. A freely suspended magnet will come to rest in the _____ direction.

- (1) East-West
- (2) North-East
- (3) North-South
- (4) South-West

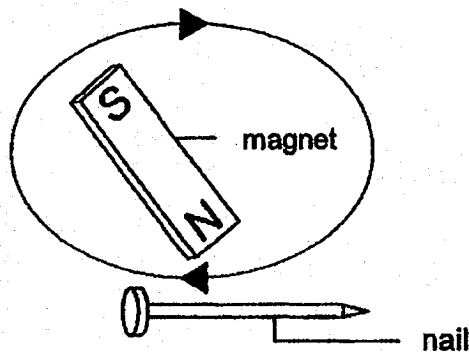
11. Jeremy arranged three ring magnets, A, B and C, through a plastic rod as shown in the diagram below.



Which magnet(s) should Jeremy turn over so that all three magnets are attracted to one another?

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

12. Linda wanted to turn an iron nail into a magnet. She stroked the iron nail with a magnet as shown below.

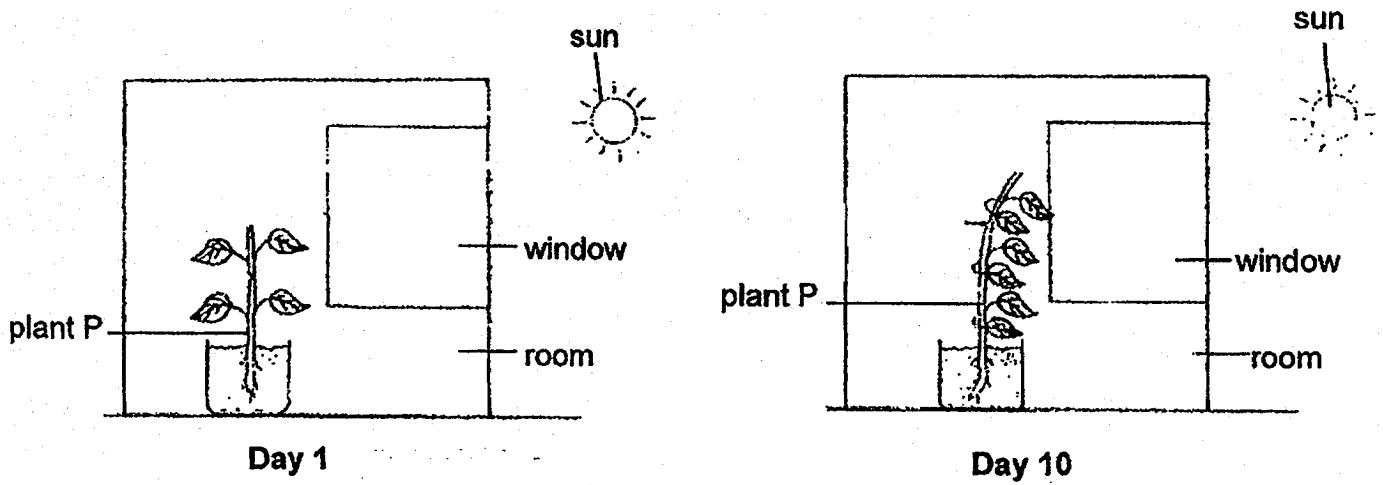


Which of the following must be done for the nail to be magnetised?

- A Stroke the nail at least 10 times
- B Stroke the entire length of the nail
- C Stroke the nail in different directions
- D Stroke the nail with the same pole of the magnet

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

13. The diagram below shows the conditions of plant P on Day 1 and Day 10.

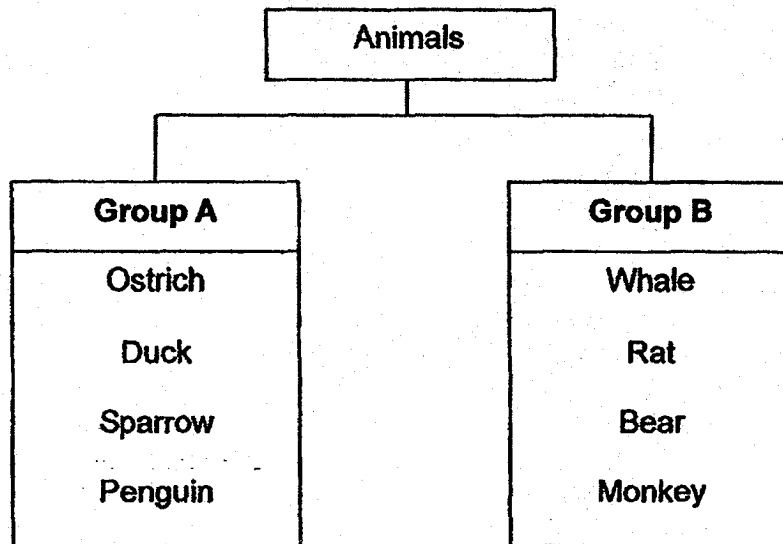


Which of the following characteristics of living things are shown by plant P?

- A Living things can grow.
- B Living things can reproduce.
- C Living things can move by themselves.
- D Living things respond to changes in the surroundings.

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

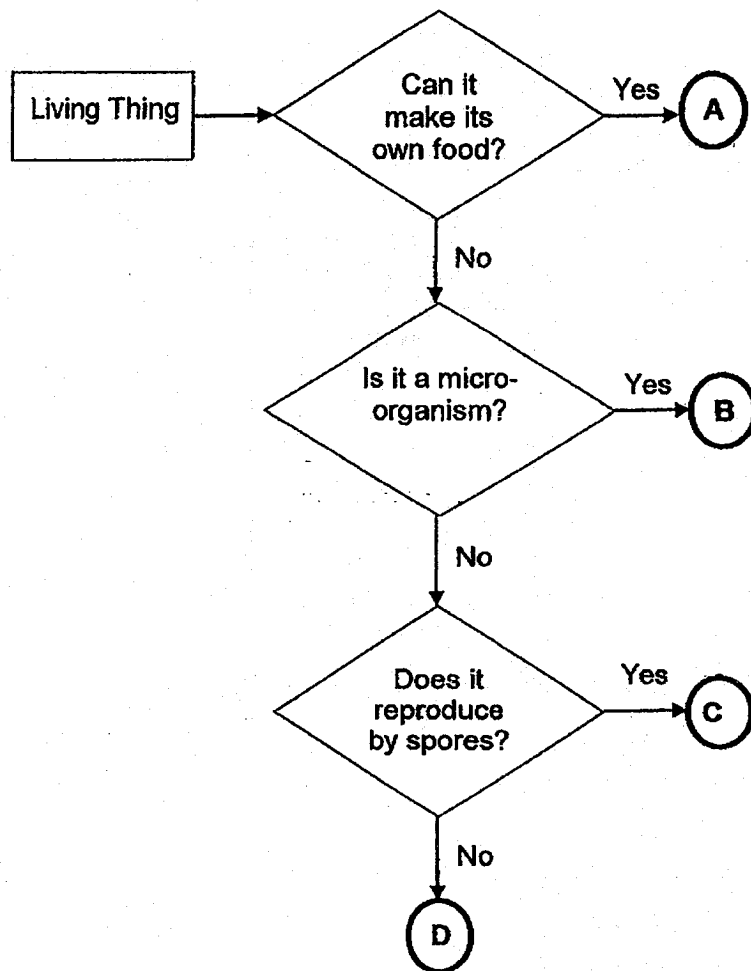
14. Ben grouped some animals in the diagram shown below.



Which of the following are suitable headings for group A and group B?

	Group A	Group B
(1)	Birds	Fish
(2)	Birds	Mammals
(3)	Amphibians	Fish
(4)	Fish	Mammals

15. Study the flowchart below carefully.



Which of the following could the living things A, B, C and D be?

	A	B	C	D
(1)	Rain tree	Toadstool	Yeast	Butterfly
(2)	Bird's Nest Fern	Bacteria	Toadstool	Butterfly
(3)	Toadstool	Yeast	Bird's Nest Fern	Bacteria
(4)	Yeast	Butterfly	Rain tree	Bacteria

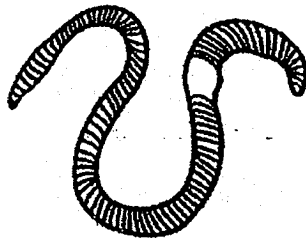
16. The diagrams below show four living things.



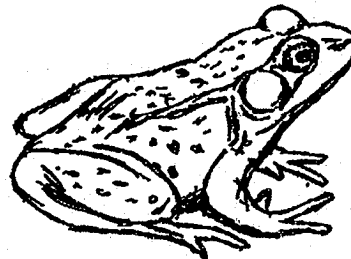
grass



fly



worm



frog

How are the living things similar?

- (1) They live on land only.
- (2) They feed on other living things.
- (3) They cannot make their own food.
- (4) They can be seen with the naked eye.

17. The picture below shows a pair of sports shoes.



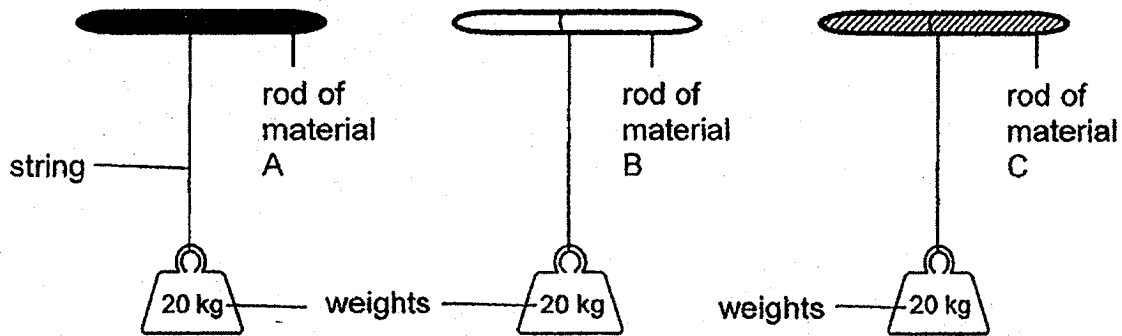
soles

Rubber is suitable for making the soles of the shoes because _____.

- A rubber is flexible.
- B rubber is waterproof.
- C rubber sinks in water.
- D rubber does not allow light to pass through.

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

18. James wanted to test the flexibility of materials A, B and C and set up an experiment as shown below. He added weights of 20 kg to rods made of materials A, B and C.

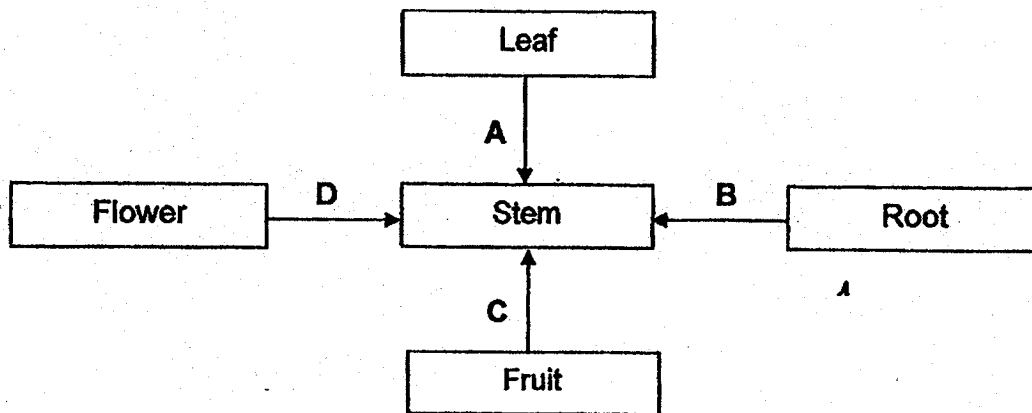


Which variable(s) must he keep the same to ensure a fair test?

- A Length of the rods
B Length of the strings
C Thickness of the rods.
- (1) A only
(2) C only
(3) A and B only
(4) A, B and C
19. Adeline was given four objects made of **different materials**. She put each object into a beaker of water for 15 minutes. She removed the objects and **recorded** the mass of the objects in the table below. Based on the table, which material is the best for making a towel to wipe spilled water?

	Object	Mass of object at the beginning (g)	Mass of object after removing it from the beaker of water (g)
(1)	A	100	125
(2)	B	100	100
(3)	C	100	120
(4)	D	100	105

20. Derick drew arrows (→) to show the movement of water in a plant.



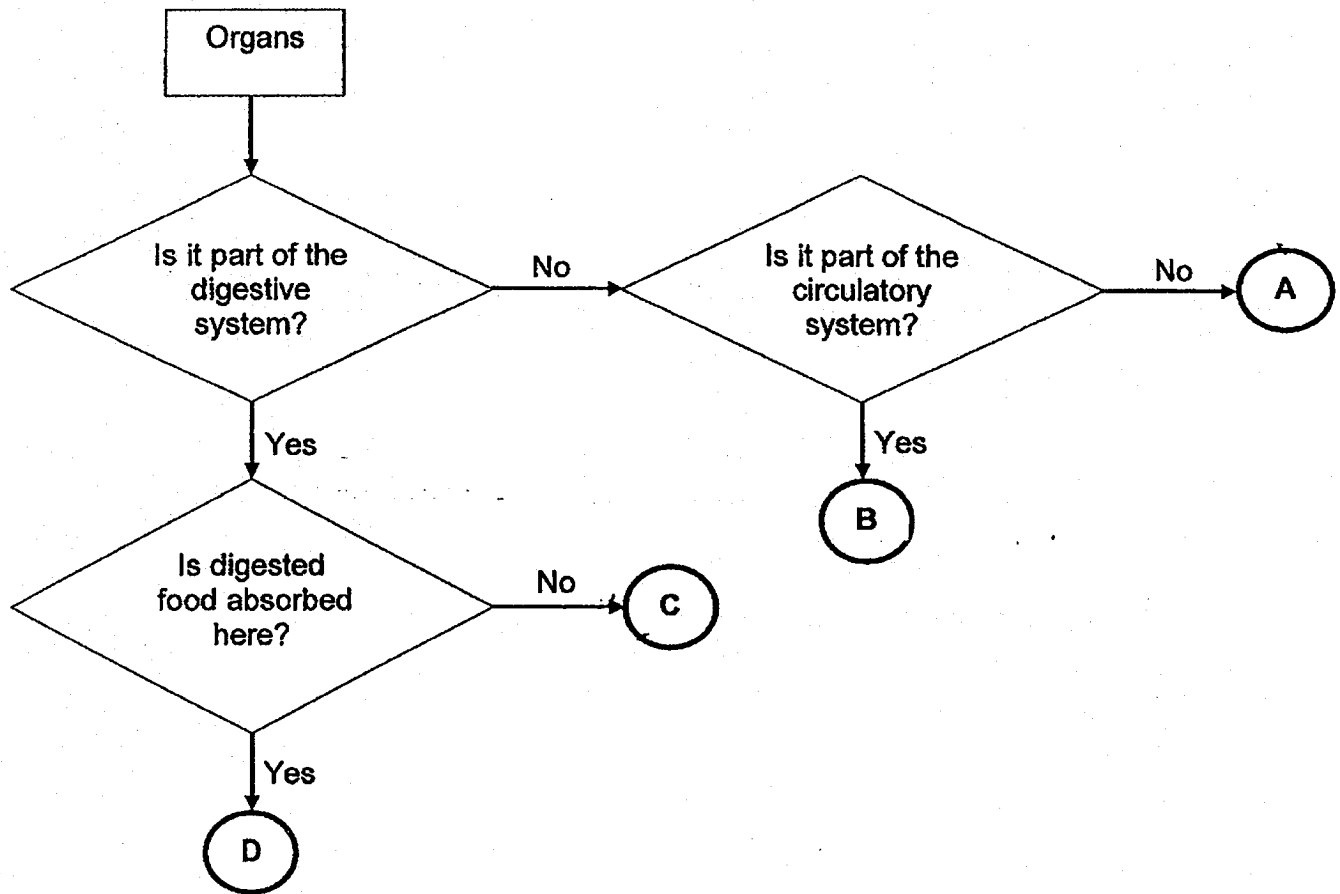
Which arrow shows the correct movement of water?

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

21. Which one the following systems is **wrongly** matched to its function?

	Human System	Function
(1)	Respiratory System	Helps the body to take in oxygen and remove carbon dioxide.
(2)	Digestive System	Protects important organs in the body.
(3)	Circulatory System	Carries oxygen, digested food and waste materials around the body.
(4)	Muscular System	Helps different parts of the body to move.

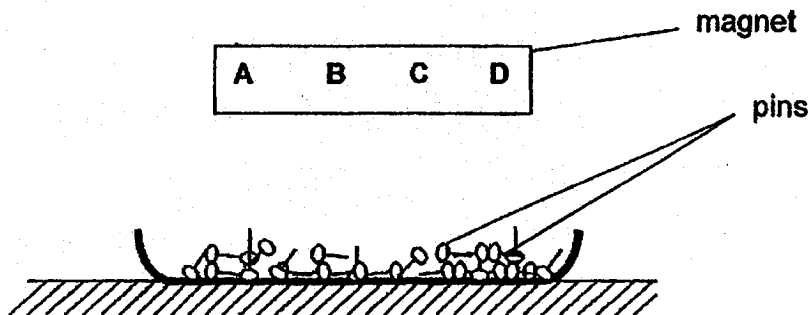
22. Study the flowchart below.



Which one of the following sets correctly identifies A, B, C and D?

	A	B	C	D
(1)	Gullet	Lungs	Large intestine	Heart
(2)	Lungs	Blood vessels	Large intestine	Small Intestine
(3)	Heart	Small Intestine	Stomach	Windpipe
(4)	Windpipe	Heart	Gullet	Large intestine

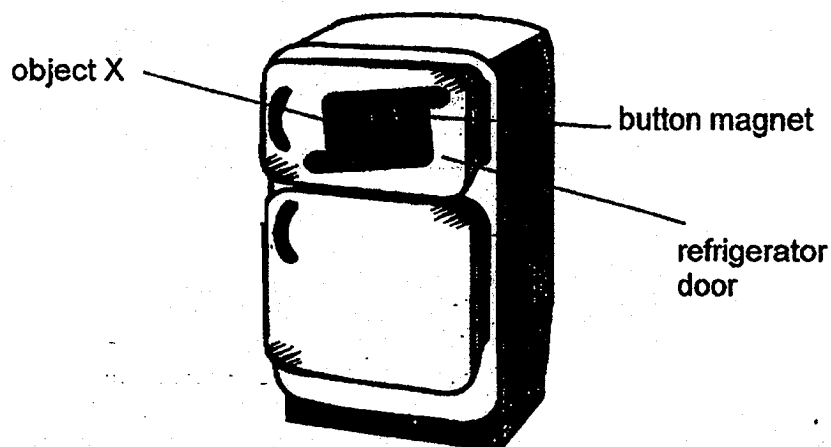
23. Terry placed a magnet into a bowl of pins. He took it out carefully and counted the number of pins attracted to parts A, B, C and D of the magnet.



Which one of the following most likely shows the number of pins attracted to parts A, B, C and D of the magnet?

	Number of pins attracted			
	Part A	Part B	Part C	Part D
(1)	4	2	5	7
(2)	9	4	3	8
(3)	7	3	2	2
(4)	1	3	7	9

24. Magnetism can pass through non-magnetic materials. In the diagram below, a button magnet is able to hold object X onto the refrigerator door.



What properties of object X and the refrigerator door enable this to happen?

	Object X	Refrigerator door
(1)	magnetic	magnetic
(2)	magnetic	non-magnetic
(3)	non-magnetic	magnetic
(4)	non-magnetic	non-magnetic



**NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 – 2018
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
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Name: _____ () **Class: P 3** _____

Date : 1 November 2018

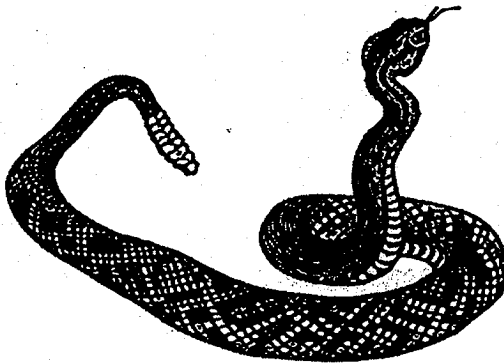
Parent's Signature: _____

Section B: (32 marks)

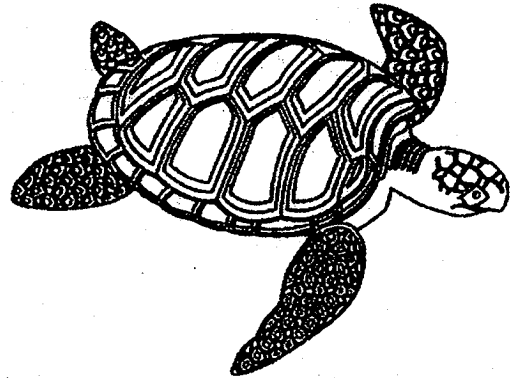
Write your answers to questions 25 to 34 in the space provided.

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

25. The pictures below show two animals.



animal X



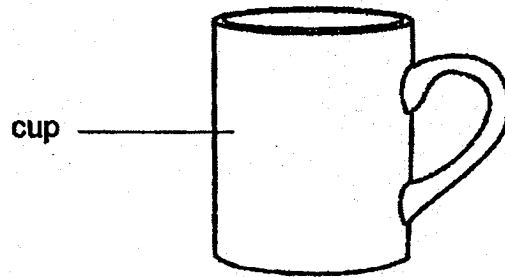
animal Y

- (a) Based on what you can observe from the pictures, state one similarity between animal X and animal Y. (Do not compare their colours, shapes and sizes.) [1]

- (b) Based on what you can observe from the pictures, state one difference between animal X and animal Y. (Do not compare their colours, shapes and sizes.) [1]

- (c) Which group of animals do animal X and animal Y belong to? [1]

26. A cup is normally made of ceramic or glass.

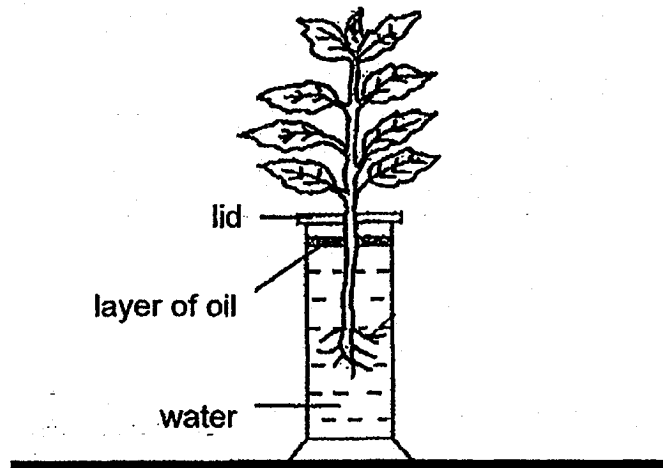


- (a) State a similar property between ceramic and glass that makes it suitable for making a cup. [1]

- (b) Suggest another material that can be used to make a cup for young children. The material chosen must be reusable. [1]

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

27. The set-up below shows a plant in a container of water. The set-up was left overnight in a room.

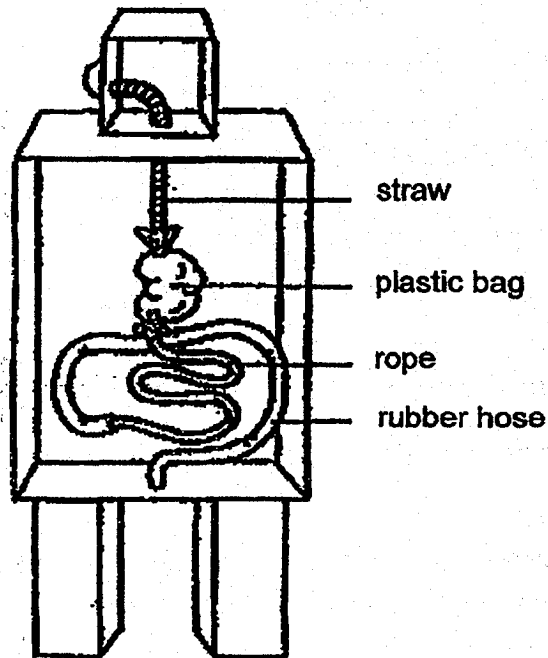


- (a) What would happen to the amount of water in the container after one night? [1]

- (b) Explain your answer in (a). [1]

Score	2
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28. Zack made a model of a human body system using scrap materials as shown below.

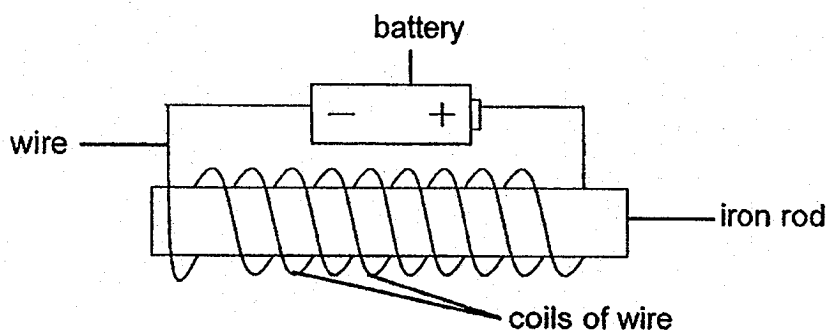


- (a) Which body system did he make? [1]

- (b) State one function of the body system mentioned in (a). [1]

- (c) Name the organ that the plastic bag represent. [1]

29. Julius wanted to magnetise an iron rod. He used a wire and a battery as shown in the set-up below.



- (a) Name the **above** method of magnetising the iron rod. [1]

Julius placed some paper clips near the iron rod and recorded the number of paper clips that were attracted to it in the table below.

Number of coils of wire around the iron rod	Number of paper clips attracted to the iron rod
10	5
15	12
?	20
25	28

- (b) How many coils of wire were required for 20 paper clips to be attracted? [1]

Number of coils of wire on the iron rod: _____

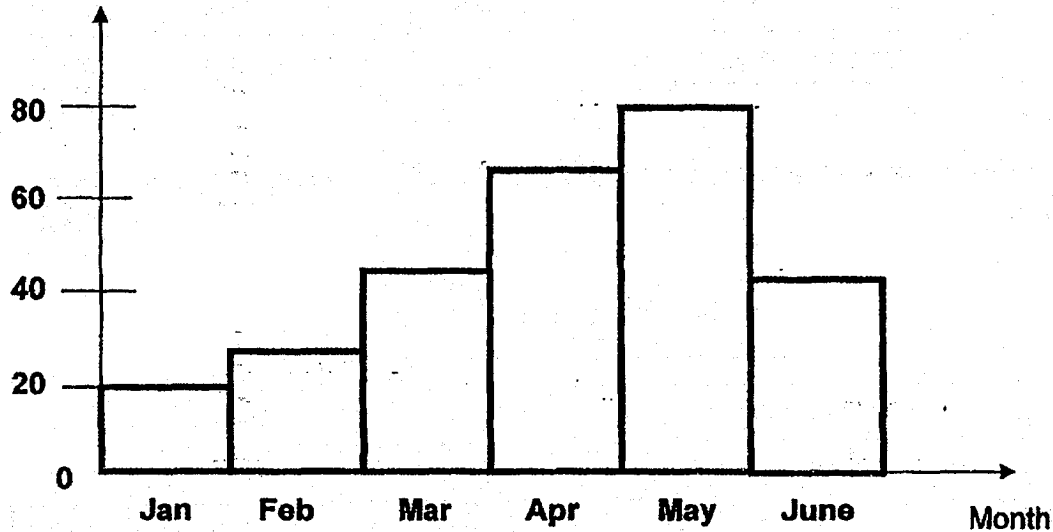
- (c) Suggest **2 changes** that Julius can make to the set-up above so that the electromagnet will attract more paper clips? [2]

(i) _____

(ii) _____

30. The graph below shows the number of rabbits in a field from January to June. No rabbits moved into or out of the field during this period.

Number of rabbits



- (a) Based only on the graph above, state the characteristic of living things shown by the rabbits from January to May. [1]

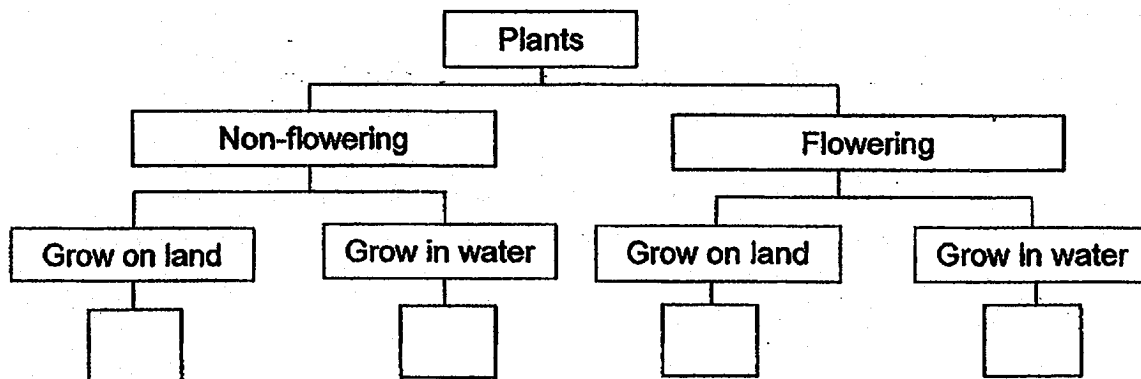
- (b) No other animals moved into the field in June. Explain what could have caused the number of rabbits to decrease in June. [2]

- (c) Animal X came in July. It has 2 legs and lays eggs. What outer covering does animal X most likely have? [1]

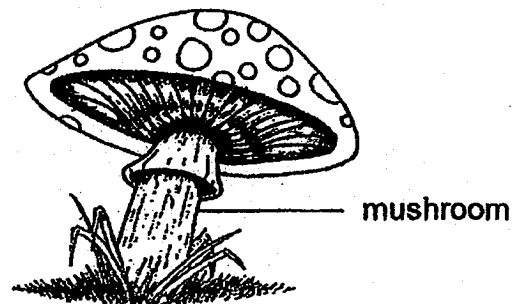
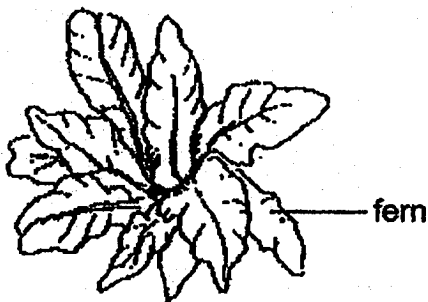
31. The table below shows the characteristics of four plants, A, B, C and D.

Characteristics	Plants			
	A	B	C	D
Can bear fruits	Yes	No	Yes	No
Grows on land	No	No	Yes	Yes

- (a) From the information above, put Plant A, B, C and D in the classification table below. [2]



Kah Lee found two living things in the garden.

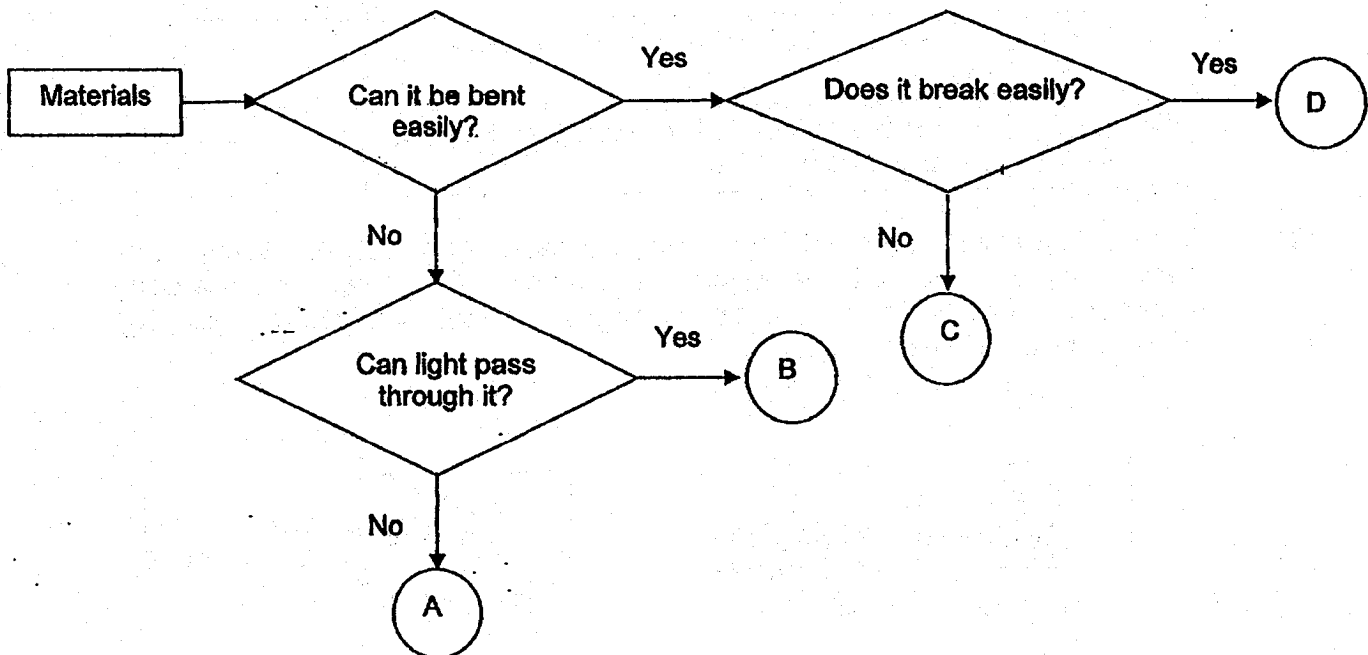


- (b) She then classified both as non-flowering plants because both reproduce through spores. Is she correct? Explain your answer. [1]

32. Mrs Tan wants to make a reusable ECO bag that she can use for shopping. She needs it to be folded after use. She also needs it to be light so that she can carry it everywhere she goes.



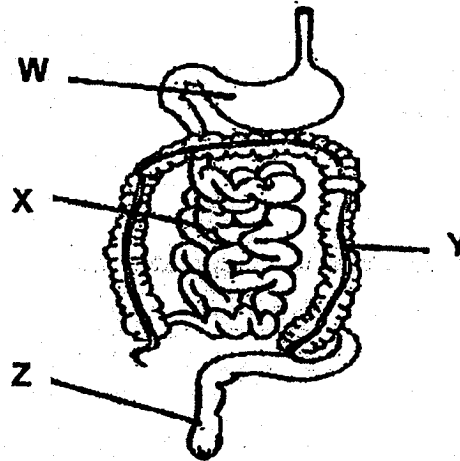
The following flowchart shows the properties of four different materials, A, B, C and D.



- (a) Which material, A, B, C and D, is most suitable for making the ECO bag? [1]

- (b) Based on the flowchart, state two properties of material B. [2]

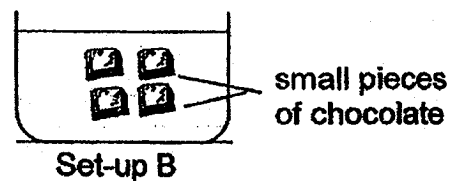
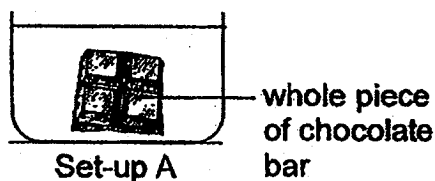
33. The diagram below shows the human digestive system.



- (a) Write the parts, W, X, Y or Z, that perform the following functions in the table below. [3]

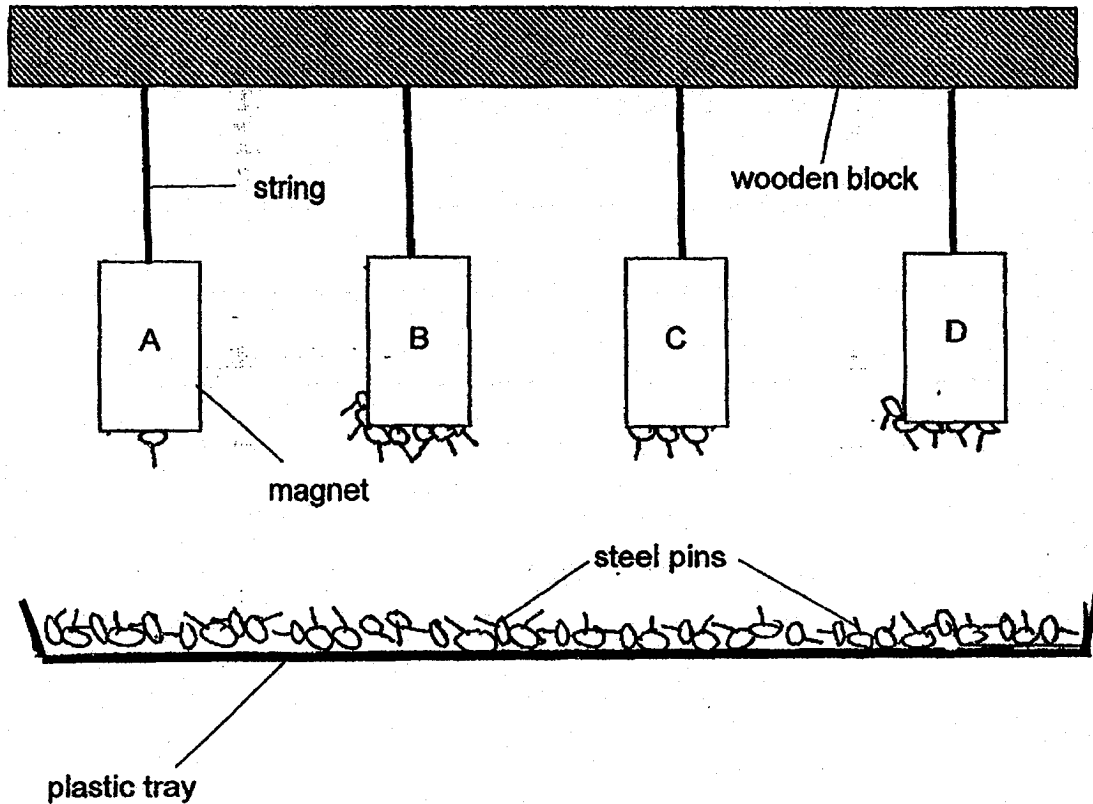
Function	Part
(i) Water is absorbed from undigested food.	
(ii) The food is digested further and mixed with other digestive juices.	
(iii) Digestion of food is completed here and the digested food is absorbed into the blood.	

- (b) Charlene conducted an experiment using the two set-ups below. Set-up A has a whole piece of chocolate bar in the beaker while Set-up B has a similar piece of chocolate broken into small pieces. Same amount of digestive juice was added to both set-ups.



Charlene saw that the small pieces of chocolate in Set-up B digested faster than the whole piece of chocolate bar in Set-up A. Explain why. [1]

34. Sarah wanted to compare the magnetic strength of four magnets, A, B, C and D. All the magnets were of the same size. She set up the experiment below and observed the number of steel pins that were attracted by each magnet.



The table below shows the number of steel pins attracted by the 4 magnets during the experiment.

Magnet	Number of steel pins attracted to the magnet
A	1
B	7
C	3
D	5

- (a) Arrange the magnets, A, B, C and D, from the strongest to the weakest. [1]

_____ , _____ , _____ , _____
strongest **weakest**

- (b) Sarah replaced all the steel pins with aluminium pins and repeated the experiment. What would she observe? Explain why. [2]

~ End of paper ~

EXAM PAPER 2018 (P3)

SCHOOL : NAN HUA

SUBJECT : SCIENCE

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	3	1	4	2	3	3	1	3	3
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	3	3	2	2	4	1	4	1	2
Q21	Q22	Q23	Q24						
2	2	2	3						

Q25) a) It has scales as its outer-covering

b) Animal Y has 4 legs but X does not.

c) Reptile

Q26) a) Both are waterproof

b) Plastic

c) Plastic does not break easily.

Q27) a) The amount of water will decrease.

b) The roots of the plant has absorbed the water.

Q28) a) Digestive system

b) It breaks down food into simple substances so that it can be absorbed by the body.

c) Stomach

Q29) a) Electrical Method

b) 18

c) i) Increase coils around the iron rod.

ii) Increase the number of batteries.

Q30) a) They can reproduce

b) Some rabbits have died because there was not enough food or water in the field.

c) Feather.

Q31) a) Non-flowering : Grow on land – D Grow in water – B

Flowering : Grow on land – C Grow in water – A

b) No. A mushroom is not a plant as it cannot make its own food.

Q32) a) C

b) B cannot be bend easily. B allows light to pass through.

Q33) a) i) Y

ii) W

iii) X

b) The small pieces of chocolate has a bigger surface area that is in contact with the digested juices so its get digested faster than the whole piece of chocolate bar.

Q34) a) B , D , C , A

b) She will observed that none of them will get attracted because aluminium is a non-magnetic material.