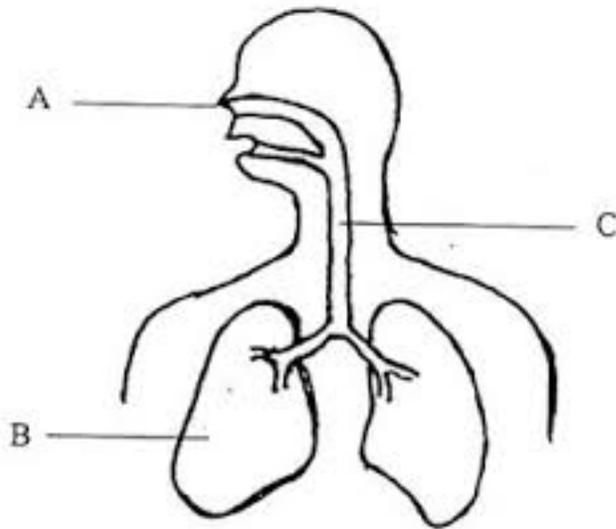


Booklet B

Write your answers in the spaces provided.

17. The diagram below shows part of a human system.



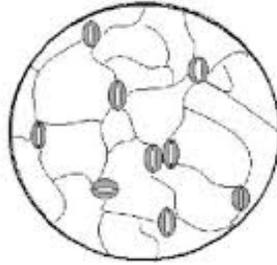
Name the organs A , B and C.

A : _____

B : _____

C : _____ (3 marks)

18. The diagram below shows some tiny openings that are found on the underside of the leaves.



(a) What are these tiny openings called? _____ (1 mark)

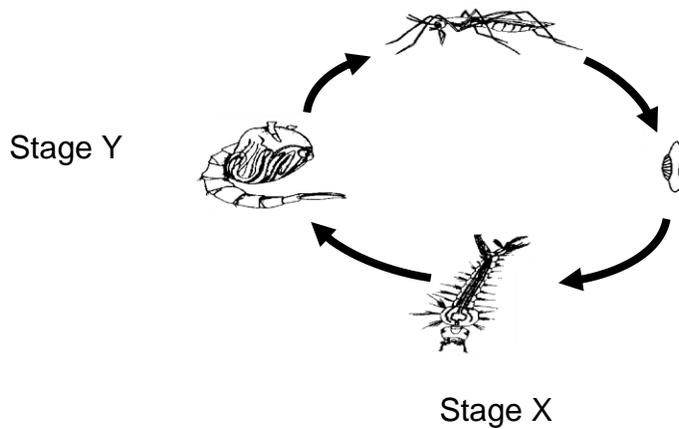
(b) Give two functions of these tiny openings.

i) _____

ii) _____

(2 marks)

19. Study the life cycle of a mosquito as shown below.



(a) Name Stage X and Y.

X : _____

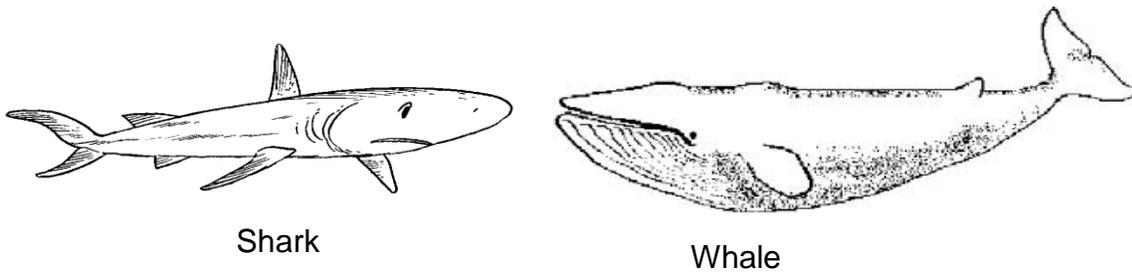
Y : _____

(2 marks)

(b) At Stage X, the young of a mosquito lives on the surface of the water. How does it breathe?

_____ (1 mark)

20. Study the pictures of a shark and a whale.



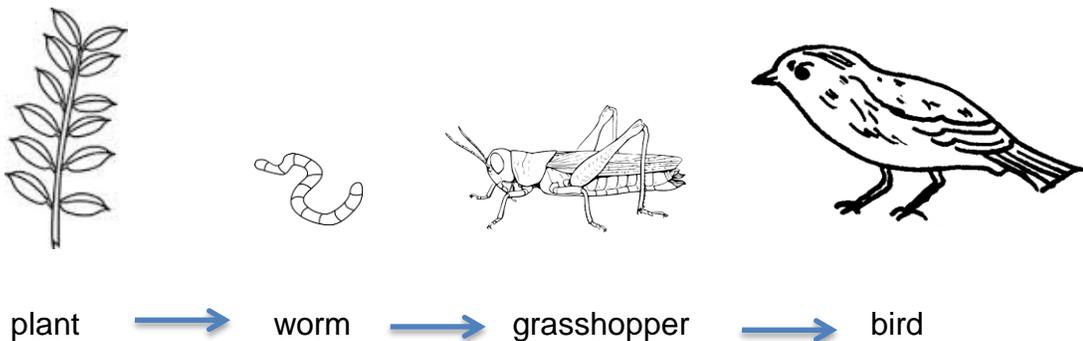
(a) Both the shark and the whale have _____ and tails to help them swim.

(1 mark)

(b) The shark is a fish while the whale is a sea mammal. Due to this, a shark breathes through its _____ and a whale breathes through its _____.

(2 marks)

21. The diagram below shows a food chain.



(a) What is the source of energy in the food chain above?

(b) From the food chain above, what is the prey of the grasshopper?

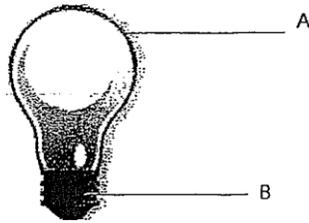
(c) Circle the correct answer in the question below.

Grasshoppers are usually considered as pests by farmers. What will happen to the number of worms if farmers destroy many of the grasshoppers?

The number of worms will (decrease / increase / remain the same).

(3 marks)

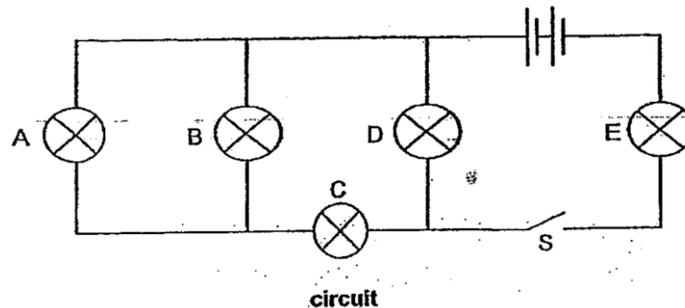
22. The diagram below shows a bulb.



(a) Part A of the bulb is made of _____ while part B is made of _____
(2 marks)

(b) One characteristic of the material used to make part A is that it must be _____ as the material must allow the light to pass through it.
(1 mark)

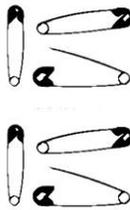
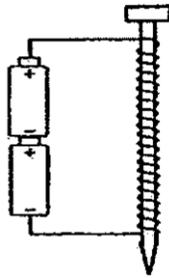
23. Ahmad set up a circuit as shown below.



Ahmad closed Switch S. He observed that all the bulbs, A, B, C, D and E lighted up. However after one minute, one of the bulbs fused and all the other bulbs did not light up.

The bulb that is most likely to have fused is Bulb _____. The fused bulb has become a / an _____ (closed / opened) circuit. Therefore _____ from the battery cannot pass through to the other bulbs. (3 marks)

24. Kassim wanted to find out the strength of an electromagnet using the set-up as shown below.



He recorded his results in the table below.

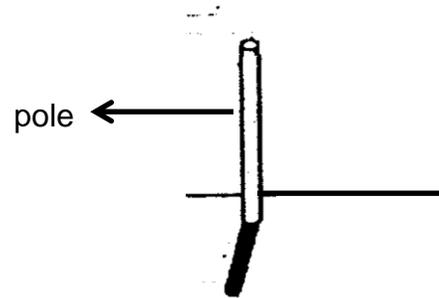
Number of turns of wire	Number of pins attracted to the electromagnet
5	0
10	3
20	7

(a) Why was no pin attracted to the iron nail with 5 turns of wire? (1 mark)

(b) Kassim replaced the iron nail with a ceramic spoon. He finds that the number of pins attracted to the ceramic spoon is _____. This is because ceramic is a _____ material so the ceramic spoon cannot be _____.

(3 marks)

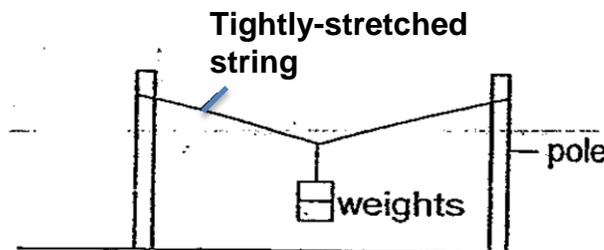
25. The diagram below shows the shadow of a pole.



(a) Draw a circle on the diagram to show the position of the light source for the pole. (1 mark)

(b) The shadow of the pole is formed when the path of light is _____ by the pole. The pole is _____ because it does not allow light to pass through. (2 marks)

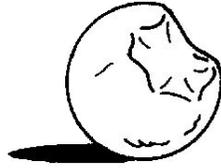
26. Zainab set up an experiment as shown below. She tied a string tightly from one pole to another. Then, she added weights on the string. Zainab found that as she added more weights, the string began to be pulled downwards.



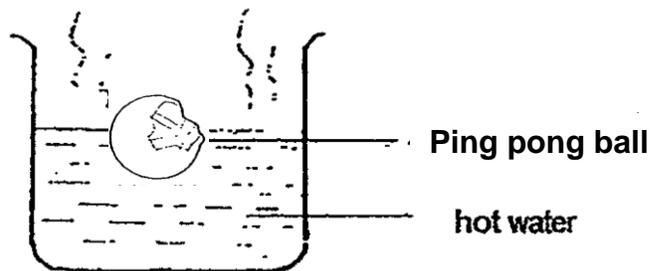
(a) Why is this so?
As Zainab kept adding more weights, _____ force is acting on the weights, pulling them and the string towards the ground. (1 mark)

(b) What do you think will happen when more weights are added?
The string would eventually _____.
(breaks, remains the same). (1 mark)

27. A ping pong ball was dented. The ball was not broken and there were no holes in it.



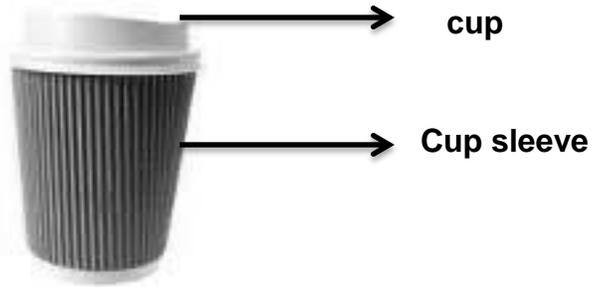
Nasir then placed the dented ping pong ball into a beaker of hot water.



(a) What can he observed about the dented ping pong ball after a few minutes? (1 mark)

(b) Explain his observation. (1 mark)

28. Haida went to a café to buy a hot drink. She noticed that her hot drink was served in a cup with a cup sleeve as shown in the diagram below.



The cup sleeve is made of corrugated cardboard.

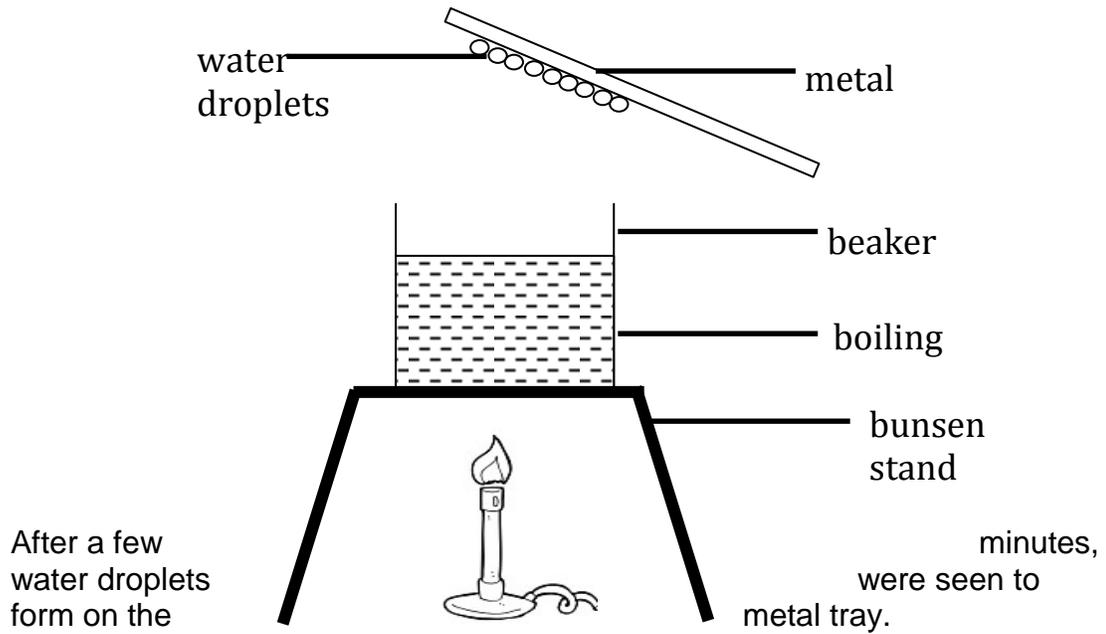
Why do cafés use cup sleeves when serving their hot drinks?

Give two reasons. (2 marks)

(a) _____.

(b) _____.

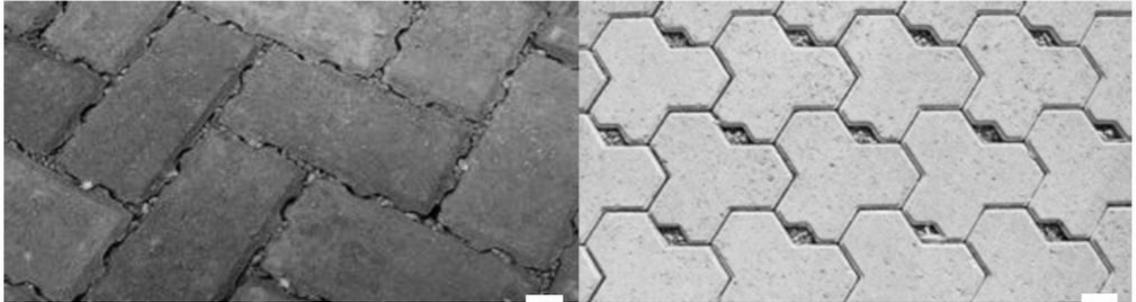
29. Study the diagram below.



How was the water droplets form?

(2 marks)

30. As Mr Fadly was parking his car, he noticed that the carpark lots were covered with concrete tiles with gaps as shown below.



It is important to have these gaps. On a hot day, the gaps allow the concrete tiles to _____. This prevents _____ in the concrete tiles.

(2 marks)