

NAN HUA PRIMARY SCHOOL
END-OF-YEAR EXAMINATION 2006
PRIMARY THREE
SCIENCE

Name : _____

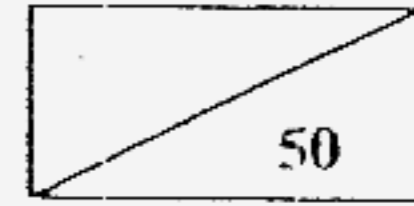
Class : Pr.3 _____

Date : 1st Nov 2006

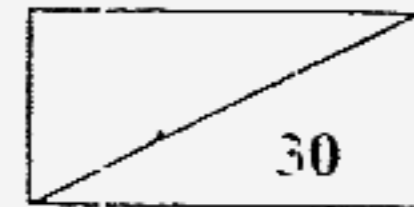
Duration : 1 h 30 min

Parent's Signature _____

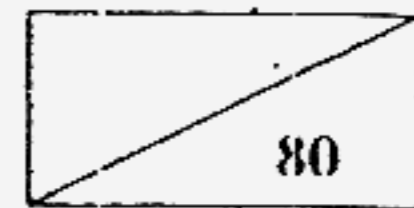
Section A:



Section B:



Total:



SECTION A (25 x 2 marks)

Each question is followed by four options. Choose the correct answer and write its number in the brackets provided.

1. The larva of a butterfly is also called a _____.

(1) cocoon

(2) pupa

(3) egg

(4) caterpillar

()

2.

Nymph



Cockroach

The difference between the nymph and the adult cockroach is that the adult cockroach has _____ but the nymph does not.

(1) a pair of wings

(2) two pairs of feelers

(3) three pairs of legs

(4) three body parts

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3. Kenny bent down to help Tom, his friend, who had fallen down.
Which of Kenny's joint(s) will be made use of when he helped Tom to get up?

A : elbow joint
B : knee joint
C : ankle joint

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

4. How are the objects grouped in the table below?

Group A	Group B
iron nails	eraser
paper clips	tissue paper
thumbtacks	marbles
safety pins	plastic buttons

	Group A	Group B
(1)	durable	non-durable
(2)	magnetic	non-magnetic
(3)	flexible	non-flexible
(4)	non-living things	once alive

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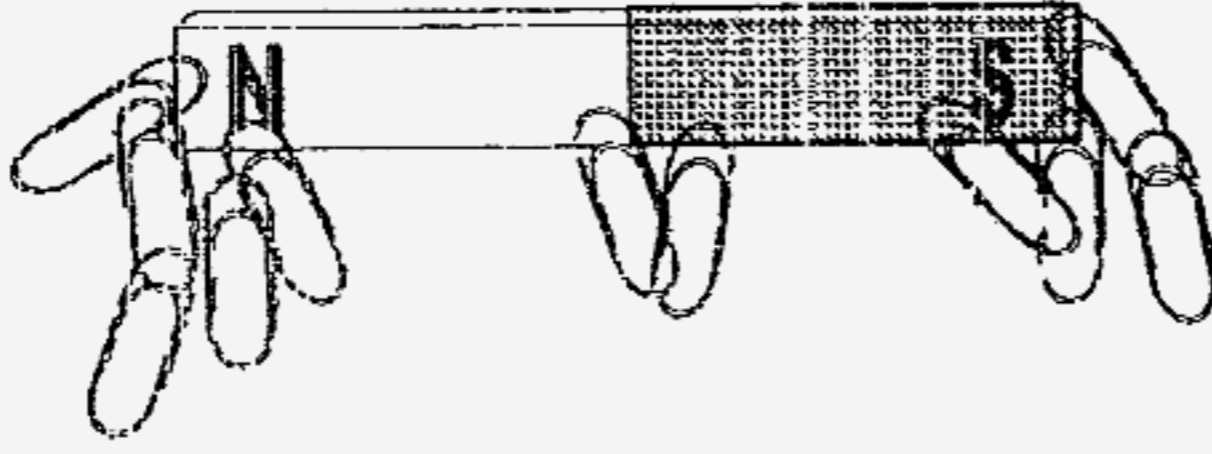
5. The diagram shows a skull. What is/ are the internal organs it helps to protect?



A : eyes
B : nose
C : brain

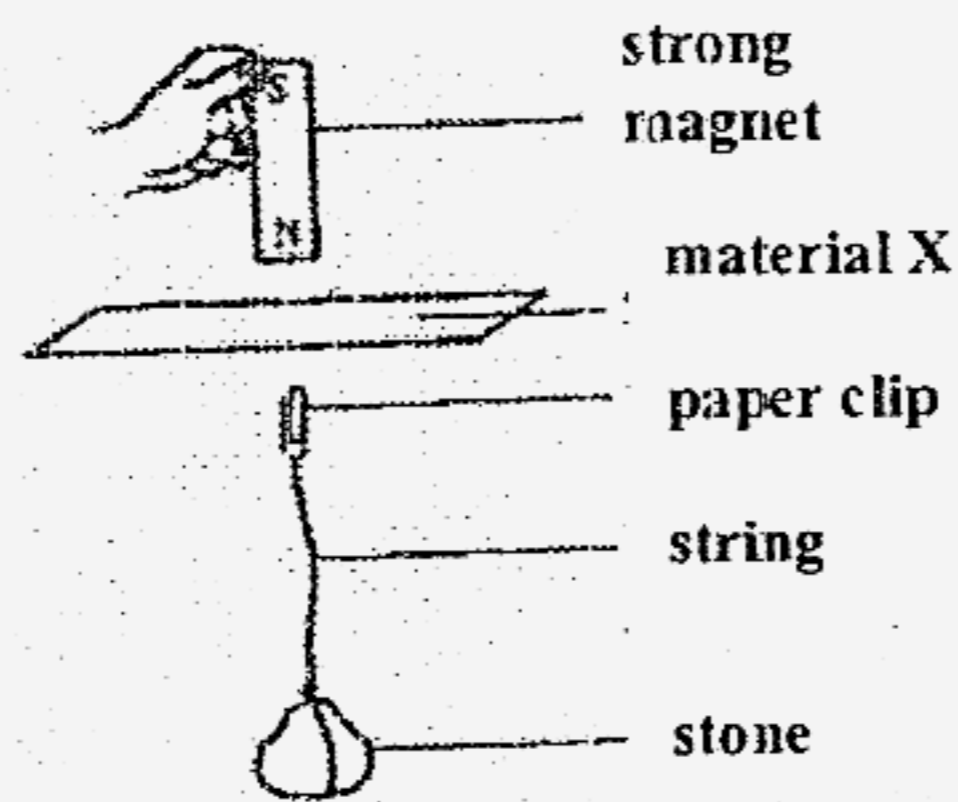
- (1) B only (2) C only
(3) A and B only (4) A and C only ()

6. Look at the bar magnet below and choose the **incorrect** statement.



- (1) The pull of a bar magnet is strongest at its end.
 - (2) The pull of the bar magnet is the weakest in the centre.
 - (3) The pull of the bar magnet is the strongest in the centre.
 - (4) The number of paper clips attracted must be equal at both ends of the magnet
- ()

7. An experiment on magnetism was shown below. Alice repeated her experiment using four different types of materials.

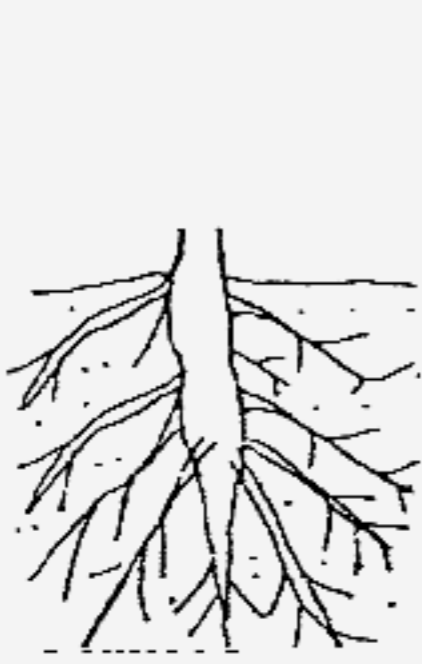


After her experiment, she concluded that a magnetic force can pass through _____ as the paper clip did not drop.

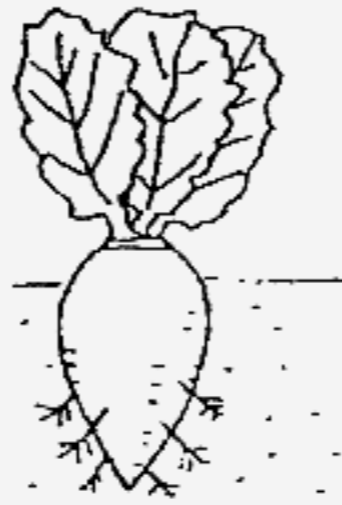
- A : thick iron sheet
- B : aluminium sheet
- C : thin plastic
- D : a piece of paper

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

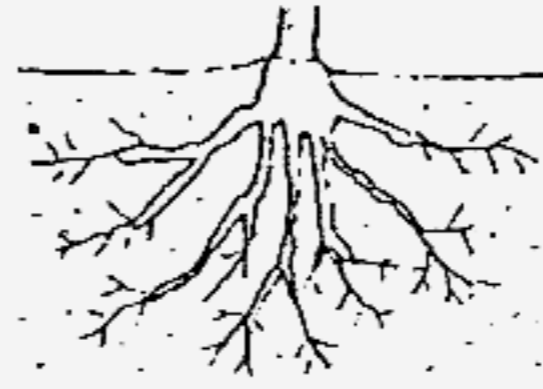
8. The pictures below show the roots of different plants. Which one is the easiest to pull out?



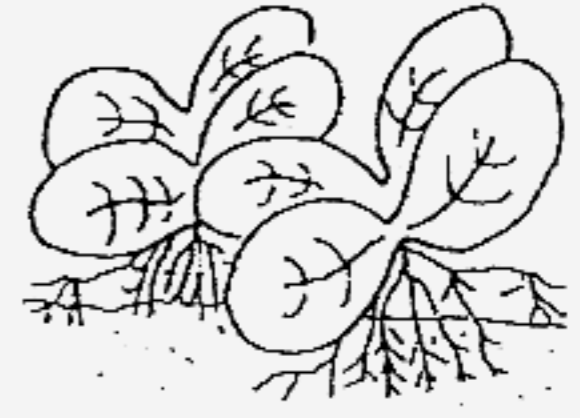
Plant A



Plant B



Plant C



Plant D

- (1) A
- (3) C

- (2) B
- (4) D

()

9. We can feel with our hands and feet because our body is covered with _____.



- (1) hair
- (3) skin

- (2) bones
- (4) muscles

()

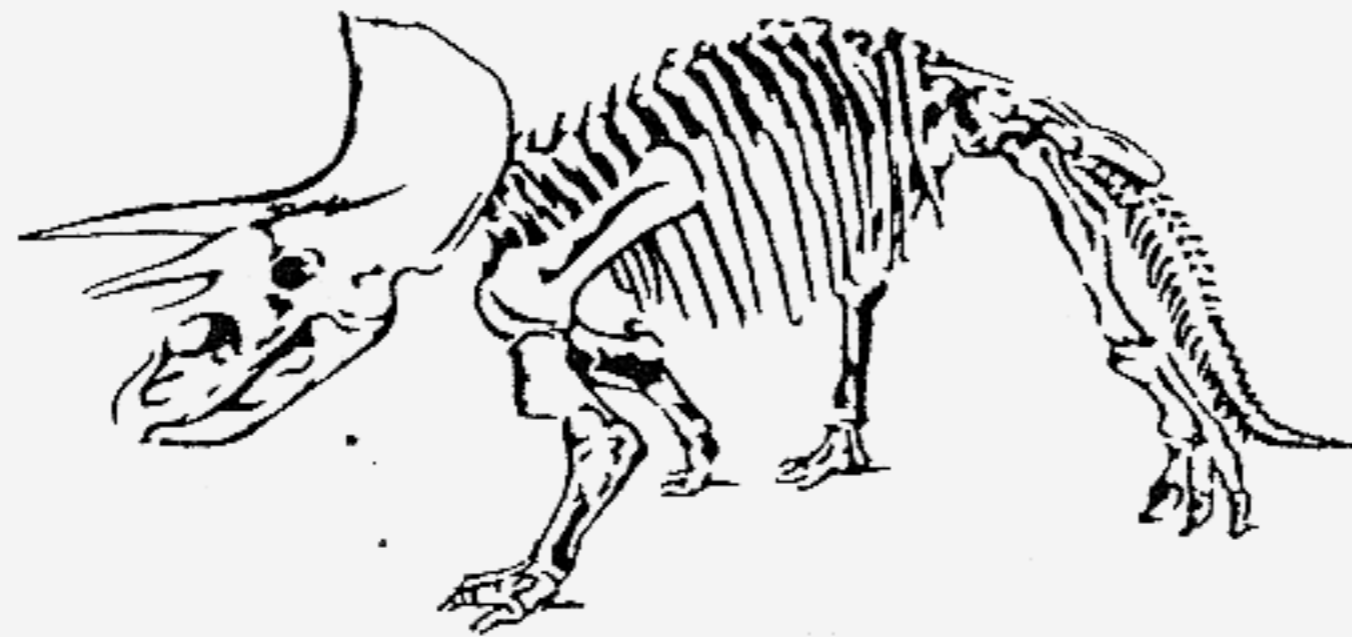
10. Most of the food we eat is completely digested in the _____.

- (1) mouth
- (3) small intestine

- (2) stomach
- (4) large intestine

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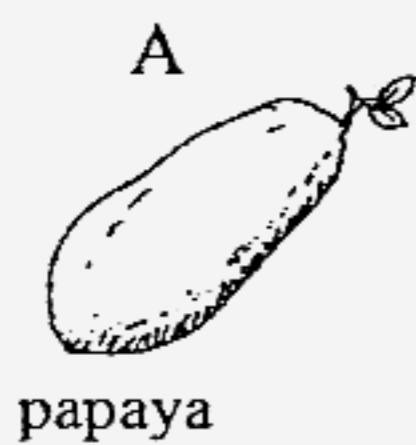
15. The diagram shows the parts of a dinosaur.



We can identify the type of dinosaurs although they had been extinct for many years as their skeletons _____.

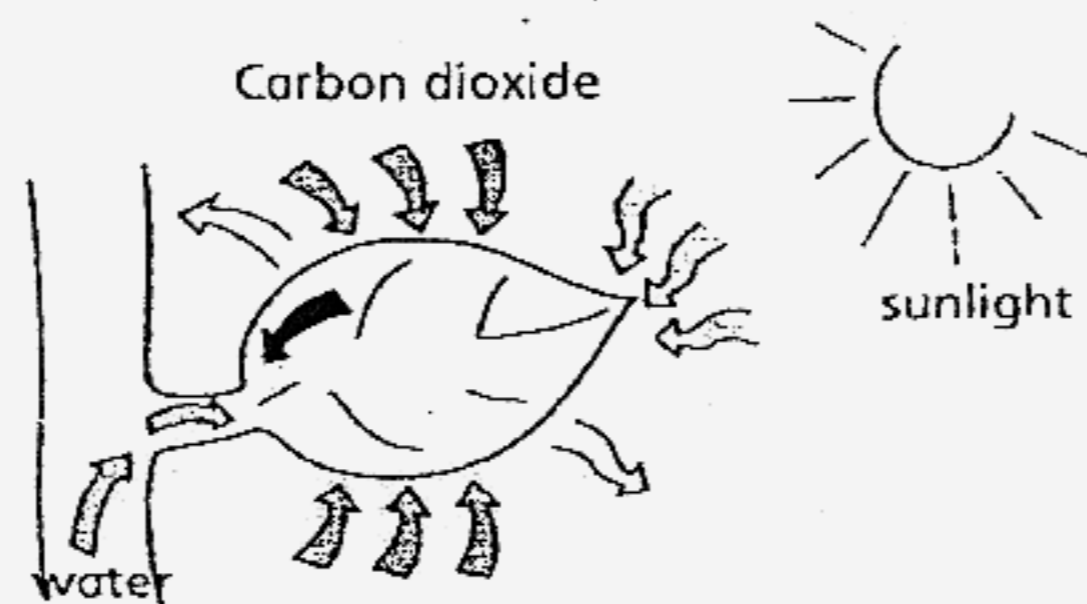
- (1) help the dinosaurs to breathe
 - (2) give the dinosaurs their shapes
 - (3) protect the dinosaurs from injury
 - (4) help to digest food for the dinosaurs
- (.)

16. Which of the fruits below do not grow from seeds?



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

17. During photosynthesis, plants need sunlight, carbon dioxide and water together with chlorophyll to make _____ and release _____ into the air.



- (1) sugar; oxygen
 - (2) minerals; nitrogen
 - (3) moisture; minerals
 - (4) sugar; heat
- ()

21. Which one of the following animals does not have the same number of stages in its life cycle as the others?



mosquito



lion



bat



buffalo

- (1) mosquito (2) lion
 (3) bat (4) buffalo ()

22. What will happen to the flowering plant if the flowers are missing?

- (1) The flowering plant will die.
 (2) The flowering plant cannot reproduce.
 (3) The flowering plant will produce more flowers.
 (4) The flowering plant becomes a non-flowering plant. ()

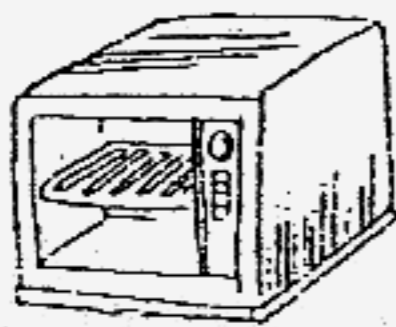
23. The _____ and _____ systems interact together in enabling movement.

- (1) respiratory, digestive (2) muscular, circulatory
 (3) skeletal, muscular (4) skeletal, respiratory ()

24. Which of the following sets of organs are involved in the digestion process?

- (1) mouth, gullet, rectum, anus
 (2) mouth, stomach, large intestine, rectum
 (3) mouth, stomach, small intestine, large intestine
 (4) mouth, gullet, stomach, small intestine ()

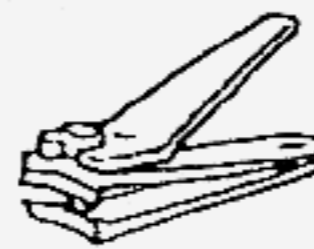
25. All of the objects below make use of magnets except for the _____.



microwave



telephone



nail clipper



doorbell

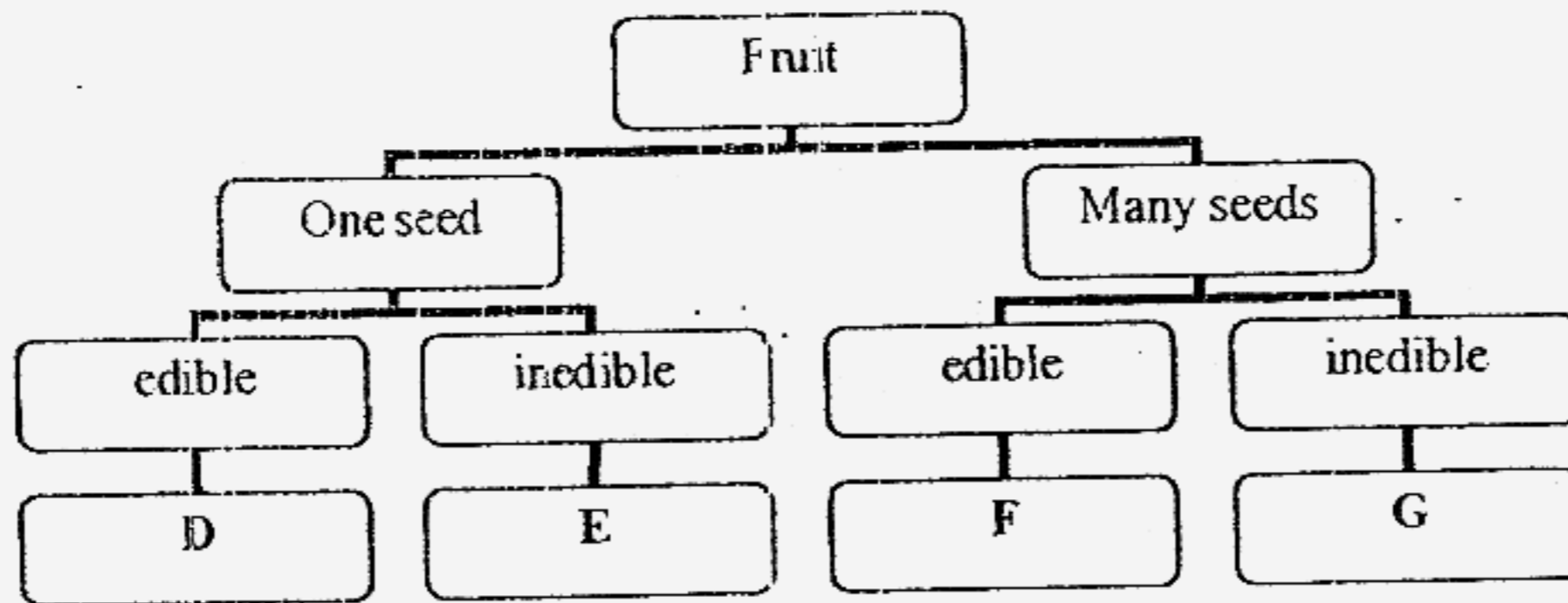
- (1) microwave oven (2) telephone
 (3) nail clipper (4) doorbell ()

SECTION B (30 marks)

Read the questions carefully. Answer all the questions.

26. Study the classification table and fill in the blanks below with the following answers. (2 marks)

pong pong watermelon balsam rambutan



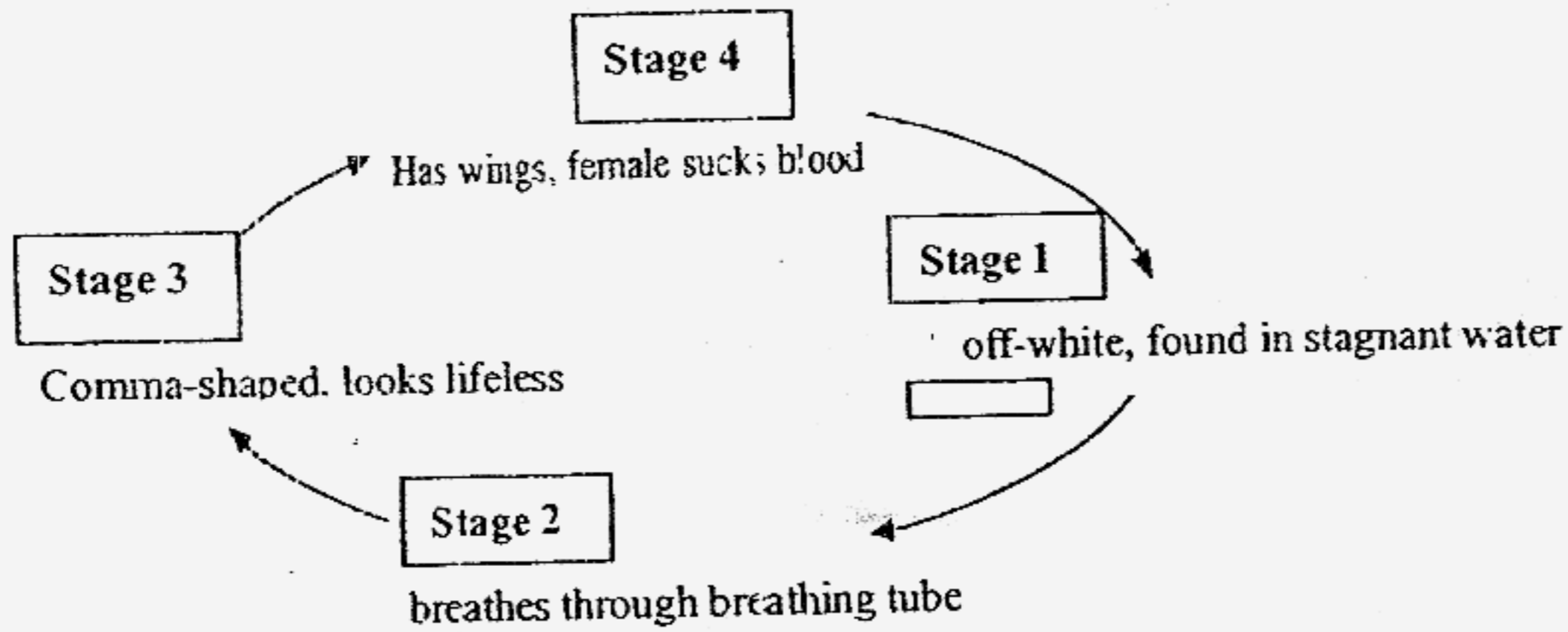
D: _____

E: _____

F: _____

G: _____

27.



The life cycle above describes the appearance of a living thing in its various stages.

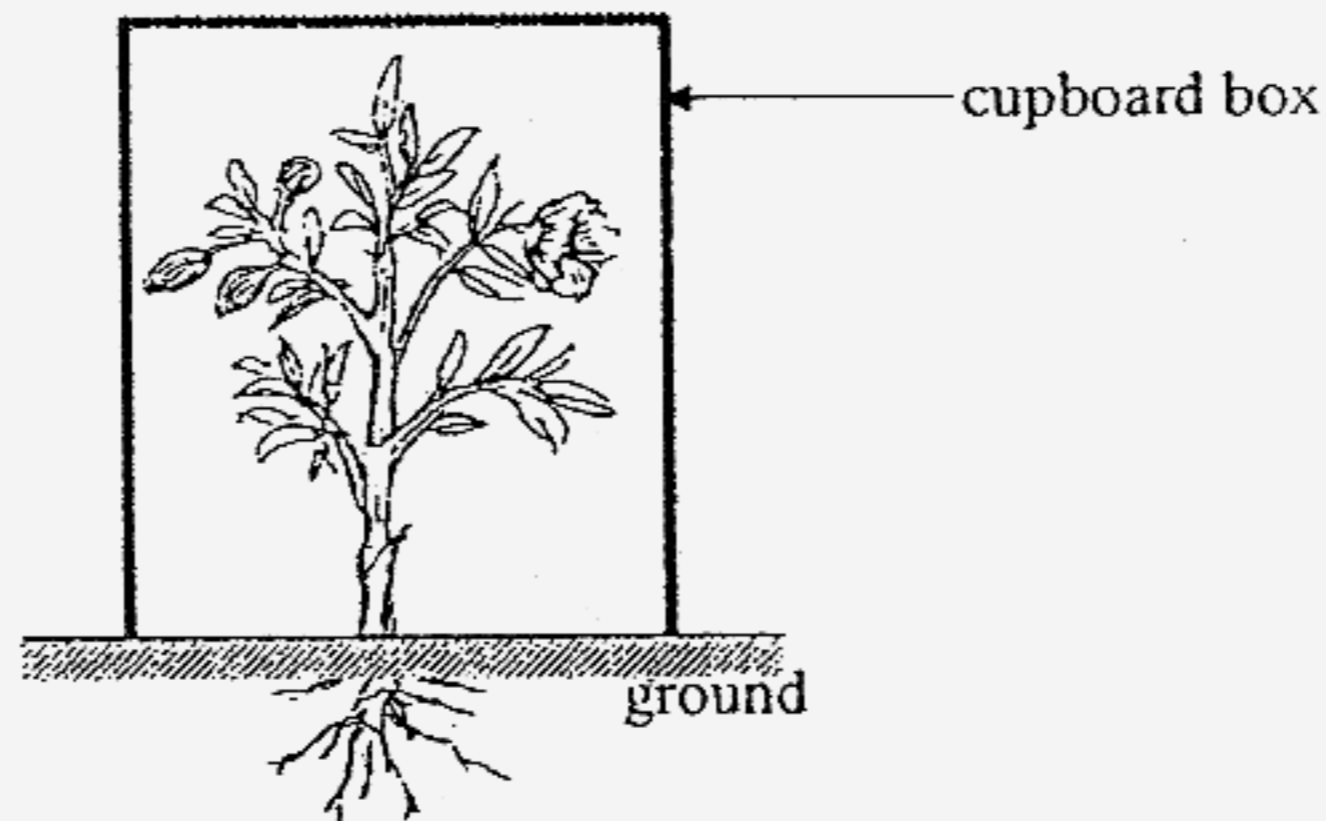
a) This living thing is a/an _____ (1 mark)

b) At which stage would you think is the most difficult to stop the animal from reproducing? Why? (1 mark)

28. Put a tick (✓) in the box which shows the most commonly used sense for each description. (2 marks)

Description	Sense of				
	hearing	touch	sight	taste	smell
a. Sally was blindfolded as she described an object in a bag to her classmates.					
b. Sally saw a yellow grapefruit at the fruit stall.					
c. Sally loved the aroma of coffee in the morning.					
d. Sally heard a loud bang but did not know where it came from.					

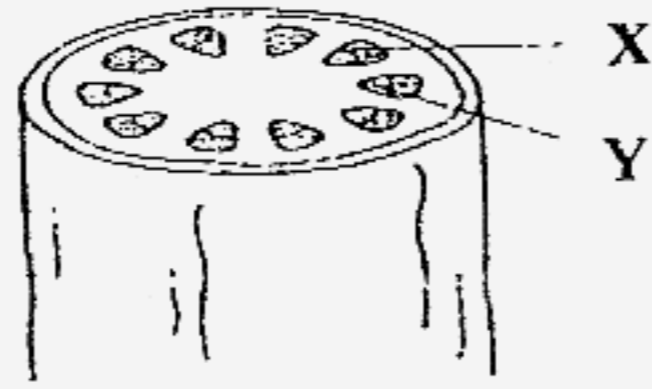
29.



A cupboard box had been placed over a balsam plant as shown above for five days. Read the statements below and write on the line 'T' if it is true or 'F' if it is false. (2 marks)

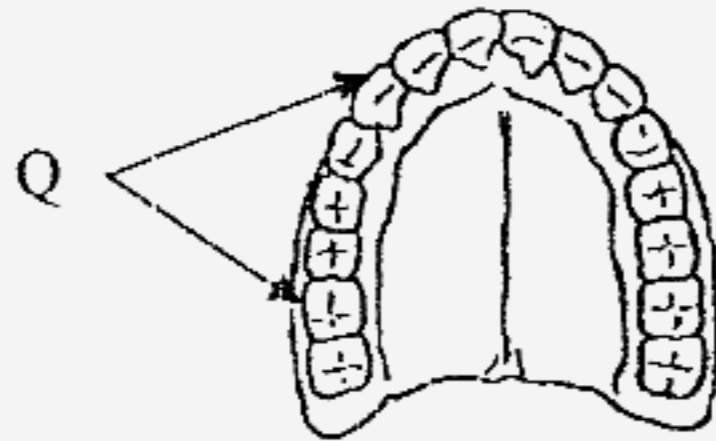
- a. The leaves, fruits and flowers of the plant would all turn yellow. _____
- b. The plant could not make food as the cupboard box had blocked the sunlight. _____
- c. The roots of the plant were not able to reach the water source as they were too near the surface of the soil. _____
- d. The plant will still be growing healthily even after a few weeks. _____

30. The diagram below shows a cross-section of a stem with tube X and Y. Which tube fits the correct function as shown? (2 marks)



Letter	Function
Tube X	Carry water and minerals absorbed by the roots to other parts of the plant.
Tube Y	Carry food made by the leaves to the rest of the plant.

31.



- a) Identify the part labelled Q. (1 mark)

- b) State the function of this part in the digestive system. (1 mark)

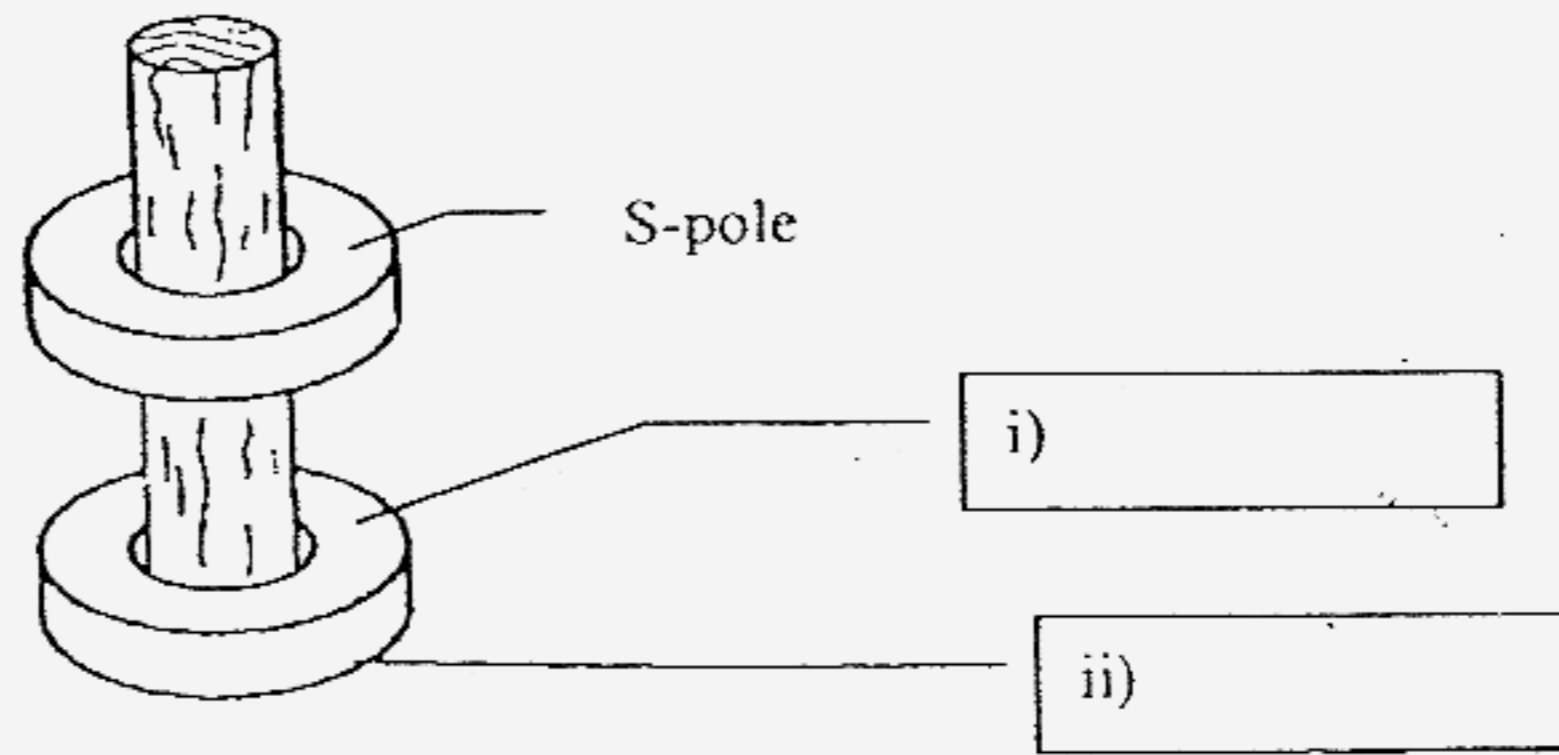
32.



- a) Identify the organ as shown and the system it belongs to. (1 mark)

- b) State an important function of this organ. (1 mark)

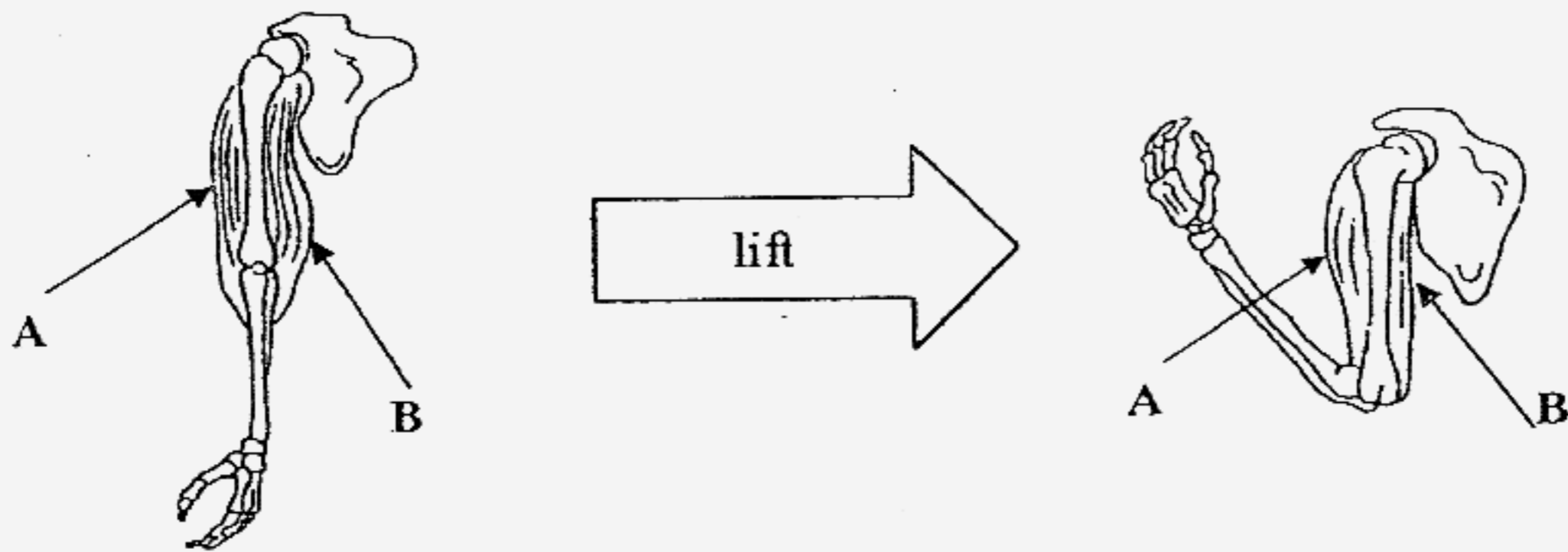
33.



A ring magnet that is placed above another ring magnet 'floats' in the air as shown.

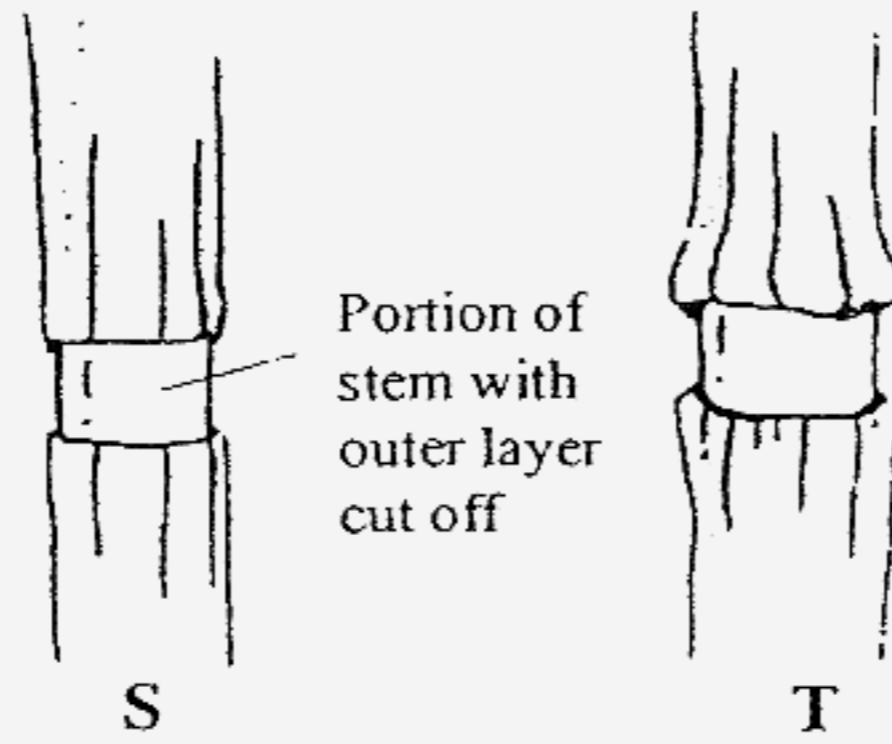
- a) Label the N-pole and S-pole of the lower ring magnet in the diagram. (1 mark)
- b) How did the upper ring magnet "float" above the lower magnet? (1 mark)

34. The cross-sections of an arm doing a lifting action are shown below.



- a) Which are the two body systems involved in doing the lifting action? (1 mark)
- b) Explain what happens to Parts A and B as the arm is lifted. (1 mark)

35.

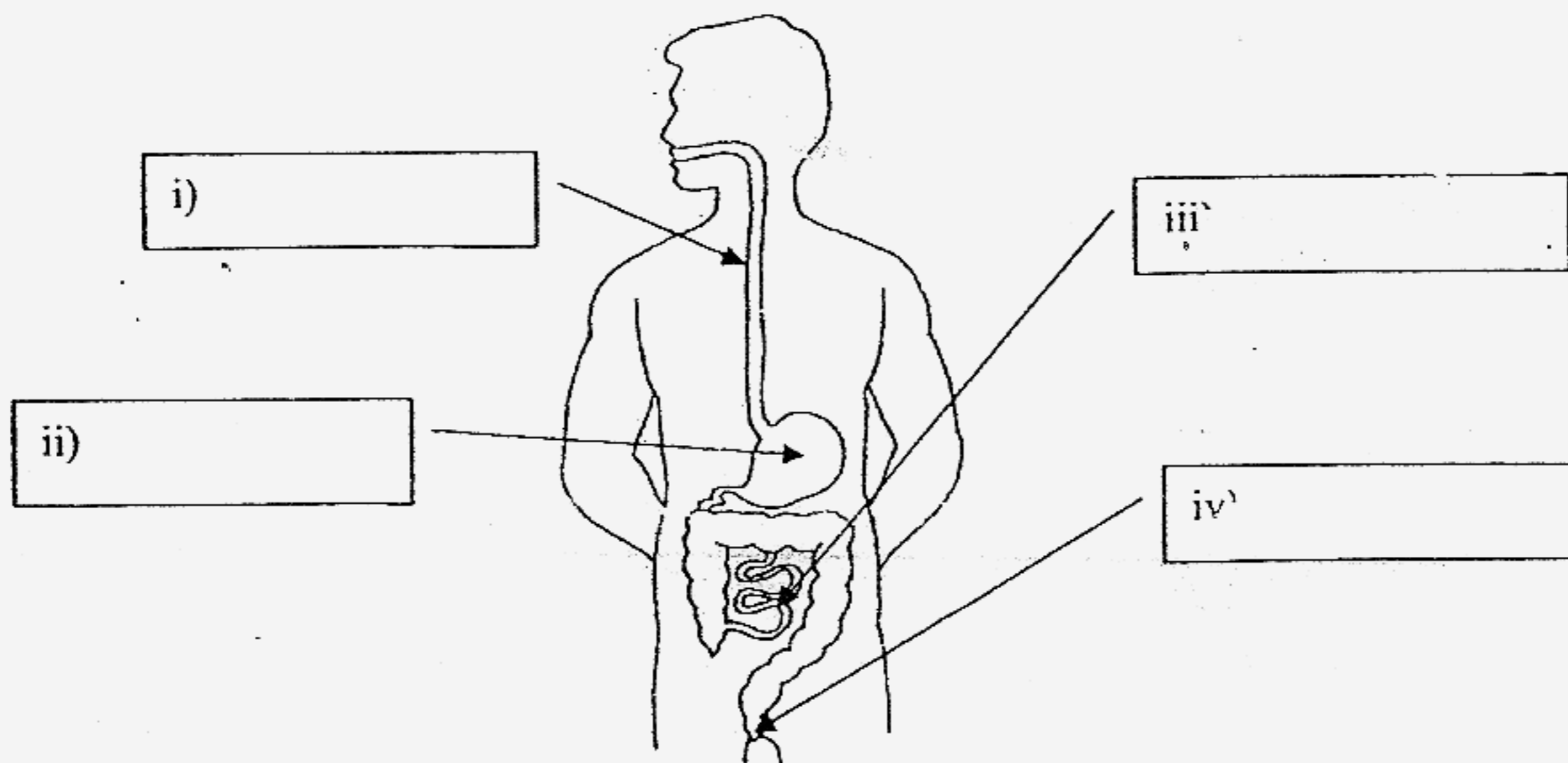


Picture S above shows a stem with a portion of its outer layer cut off. Picture T shows what the stem looks like after some time.

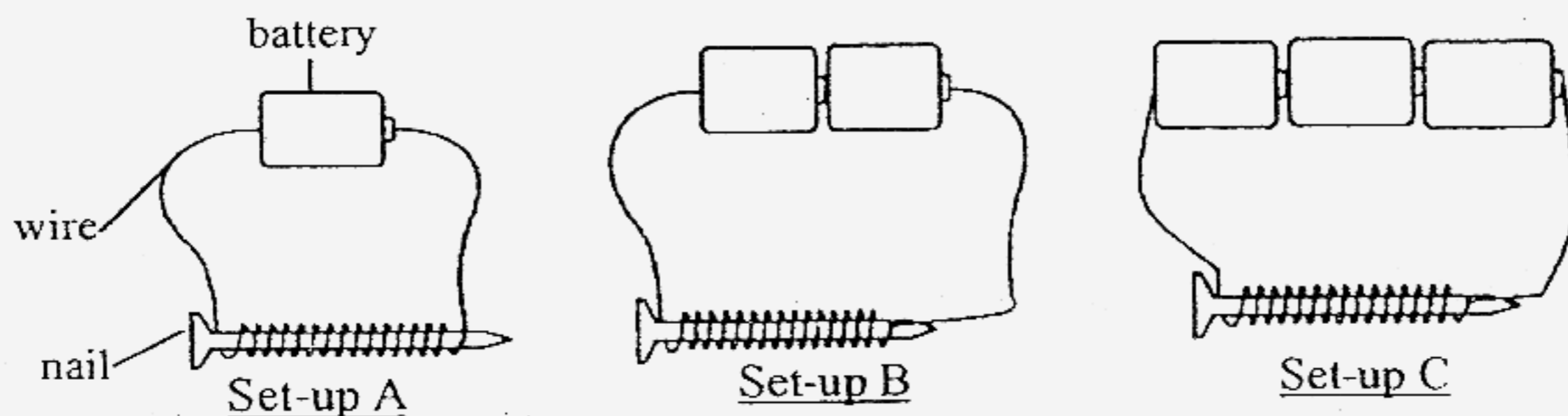
Write on the line 'T' if it is true or 'F' if it is false for each statement. (2 marks)

- a) The cut off ends of the stem in Picture T would not swell up after some time. _____
- b) The plant would die after some time. _____
- c) The cut off ends of the stem swelled as the pathway to transport food downwards was cut off. _____
- d) Water can still be transported to the plant even when the outer layer is cut off. _____

36. The diagram below shows some internal organs of the human system. Identify all the organs in the diagram. (2 marks)



37. John sets up an experiment on electromagnets as shown below.



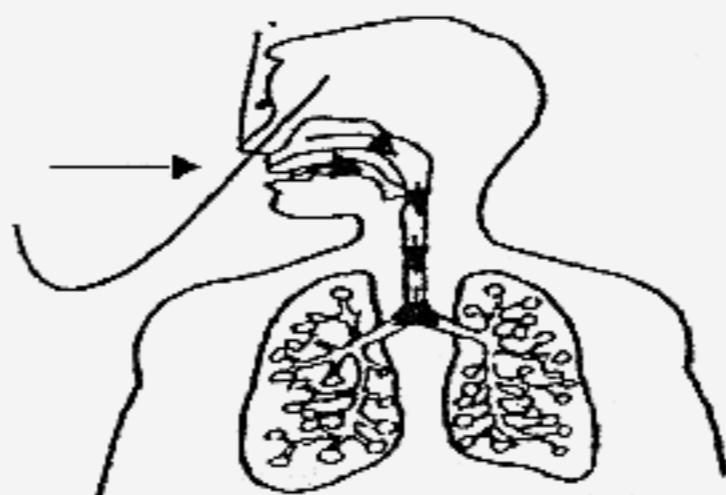
He recorded his results as shown in the table.

Set-up	Number of batteries	Number of coils of wire	Number of paper clips attracted
A	1	20	2
B	2	20	5
C	3	20	7

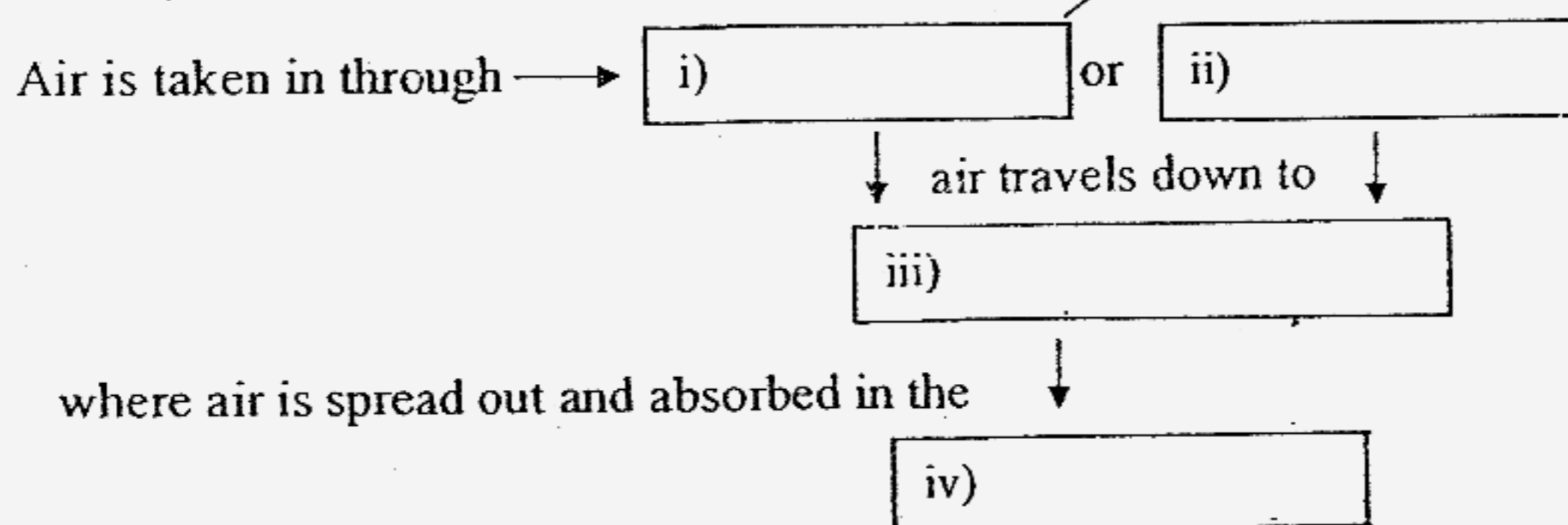
a) State the aim of his experiment. (1 mark)

b) Suggest another way to increase the number of paper clips to be attracted to the electromagnet? (1 mark)

38.



The diagram above shows the respiratory system of a human. Study the path of air when it is breathed in and complete the flow chart below. (2 marks)



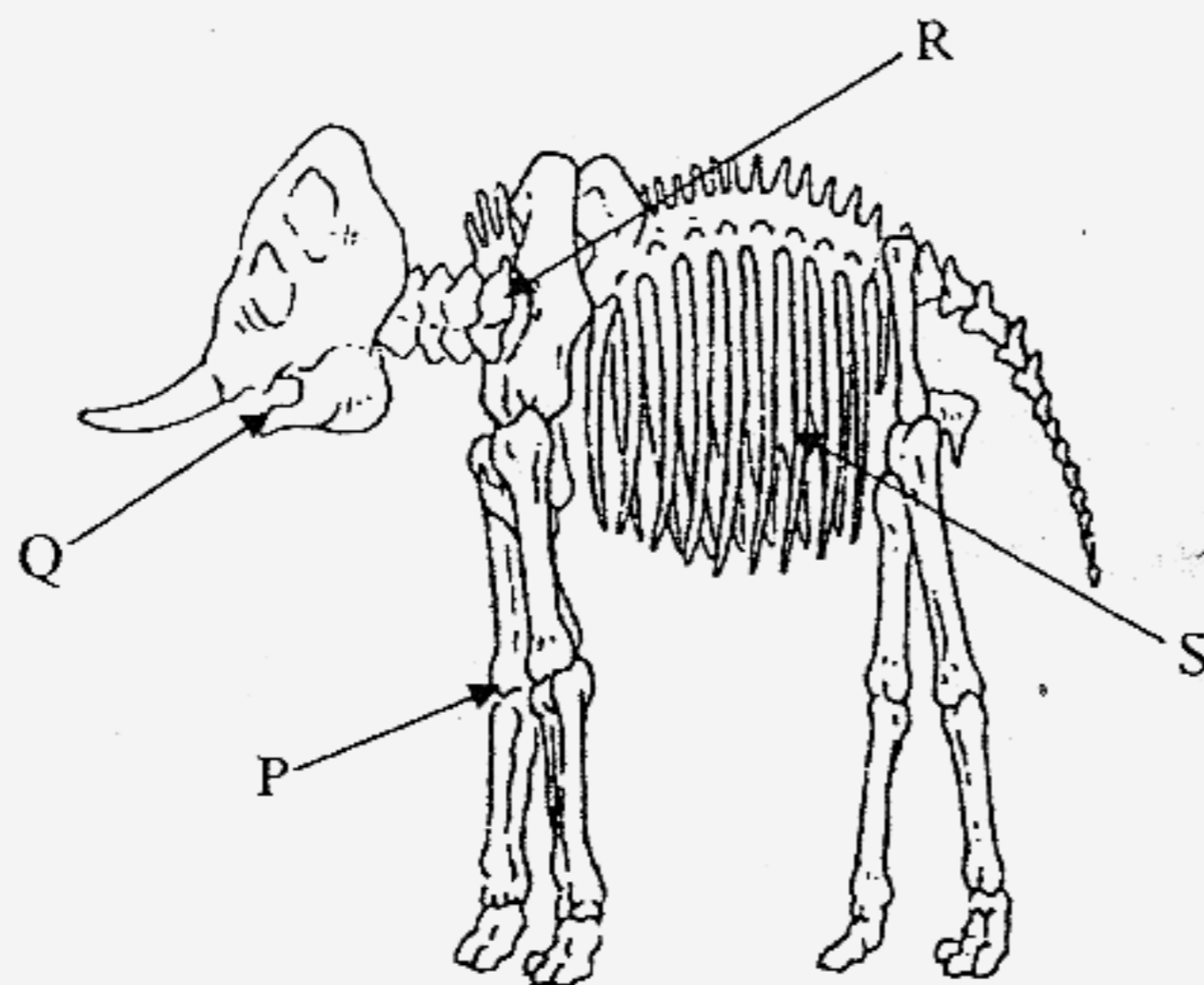
39. Daniel was given a magnet and three objects X, Y and Z. He was told to place one pole of the magnet close to the different parts of the objects. He observed what happened between each object and the magnet and recorded his observations as shown in the table below.

Objects	Attracted to the magnet	Repelled by the magnet	Neither attracted to nor repelled by the magnet
X ✓	√	X	X
Y ✓	√	√	X
Z	X	X	√

- a) From the table, which object is most likely to be a magnet? Why is this so? (1 mark)

- b) Name one material that Object Z is most likely to be made of. (1 mark)

40. Fill in the correct letter for each description based on the diagram below. (2 marks)

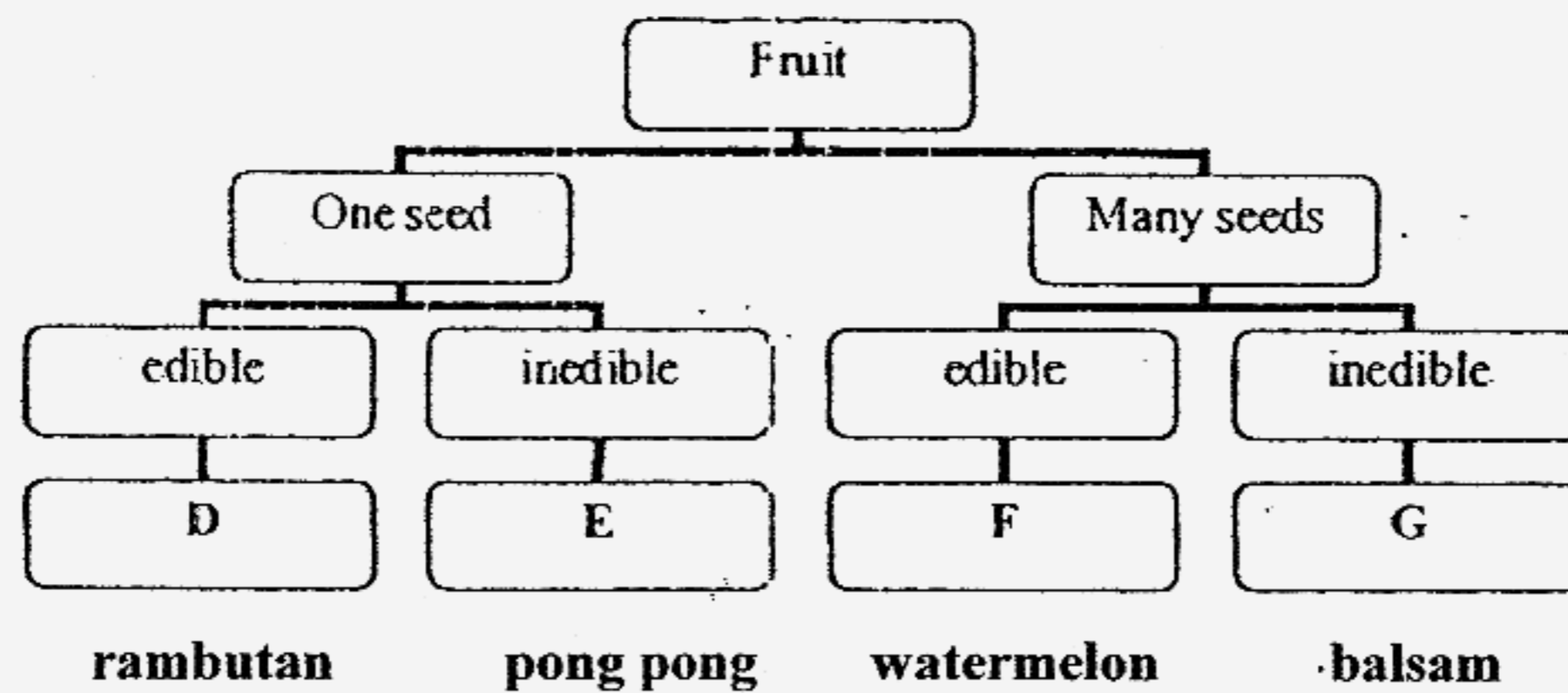


Description	Letter
It is a herbivore.	
It helps it to bend its legs.	
It protects the lungs.	
It helps it to turn its head.	

End-of-paper

- 1) 4 2) 1 3) 4 4) 2 5) 4
 6) 3 7) 4 8) 4 9) 3 10) 3
 11) 1 12) 3 13) 2 14) 3 15) 2
 16) 4 17) 1 18) 1 19) 2 20) 3
 21) 1 22) 2 23) 3 24) 4 25) 3

Q26.



- Q27a. Mosquito
 b. At the adult stage. The adult have a pair of wings and they can fly.

- Q28a. touch
 b. sight
 c. smell
 d. hearing

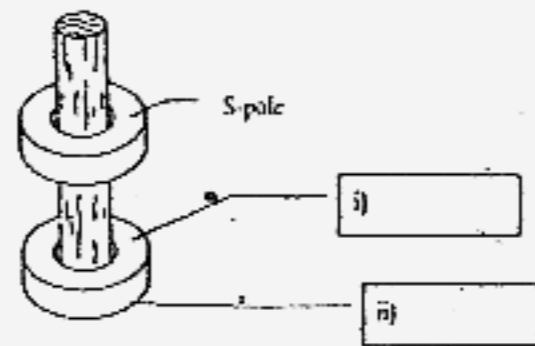
- Q29a. False
 b. True
 c. False
 d. False

- Q30. Tube Y : Carry water and minerals absorbed by the roots to other parts of the plant.
 Tube X : Carry food made by the leaves to the rest of the plant.

- Q31a. Incisors
 b. Chew the food into smaller pieces.

- Q32a. It is parts of the circulatory system.
 b. The system carries food, water and oxygen to all parts of the body.

Q33

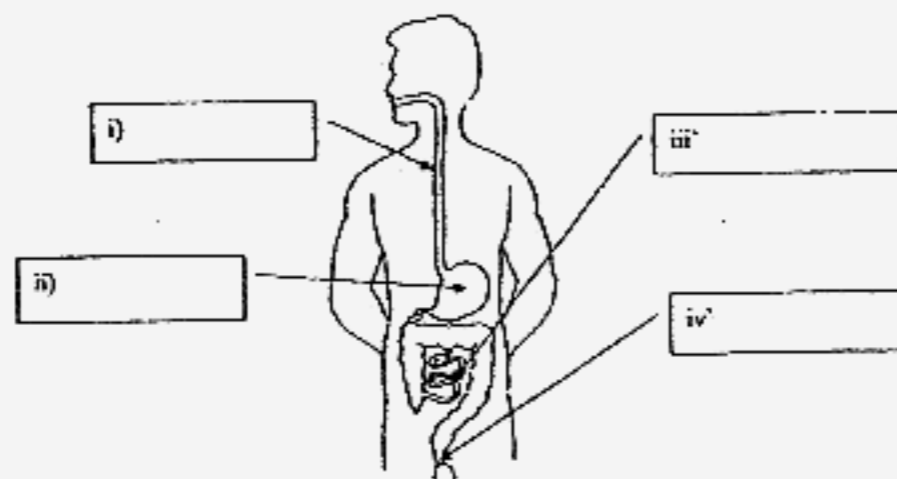


- a. (i) North
 (ii) South
- Q33b. The like poles of a magnet are either two North or two South poles.

- Q34a. Skeletal and muscular system.
 b. Part A will contract, Part B will relax.

- Q35a. False
 b. True
 c. True
 d. True

Q36.



- (i) gullet (ii) stomach (iii) small intestine (iv) anus

- Q37a. He wants to find out if the number of batteries used will affect the strength of the electromagnet.
 b. He can increase the number of coils of wire around the nail.

- Q38. (i) nose (ii) mouth (iii) wind pipe (iv) lungs

- Q39a. Object Y. It can be repelled by a magnet.
 b. The material can be glass/wood/plastic/clay/rubber.

- Q40. It is a herbivore : Q
 It helps it to bend its legs : P
 It protects the lungs : S
 It helps it to turn its head : R