

# BUKEDDE MOCK EXAMINATION

## 2023

### INTEGRATED SCIENCE

*Time Allowed: 2 hours 15 minutes*

Index No.

Random No.	Personal No.

Candidate's Name.....

Candidate's Signature .....

School Random Number .....

District Random Number .....

**Read the following Instructions carefully:**

**1. The Paper has two sections A and B**

**Section A has 40 questions and section B has 15 questions**

**2. All answers to both Section A and B must**

**be written in the spaces provided,**

**3. All answers must be written using a blue or black ball point pen or**

**ink. Diagrams should be drawn in pencil.**

**4. Unnecessary changes in your work may lead to loss of marks.**

**5. All handwriting that cannot be easily read may lead to loss of marks.**

MARKS	
Qn. No.	Marks
1 - 40	
41 - 55	
<b>TOTAL</b>	

**SECTION A**

1. Give one example of a legume we eat at school.

2. What happens to seedlings when they lack sunlight?

3. Give one example of an arachnid that is a danger to cattle.

4. Name the food value we get from sugarcanes.

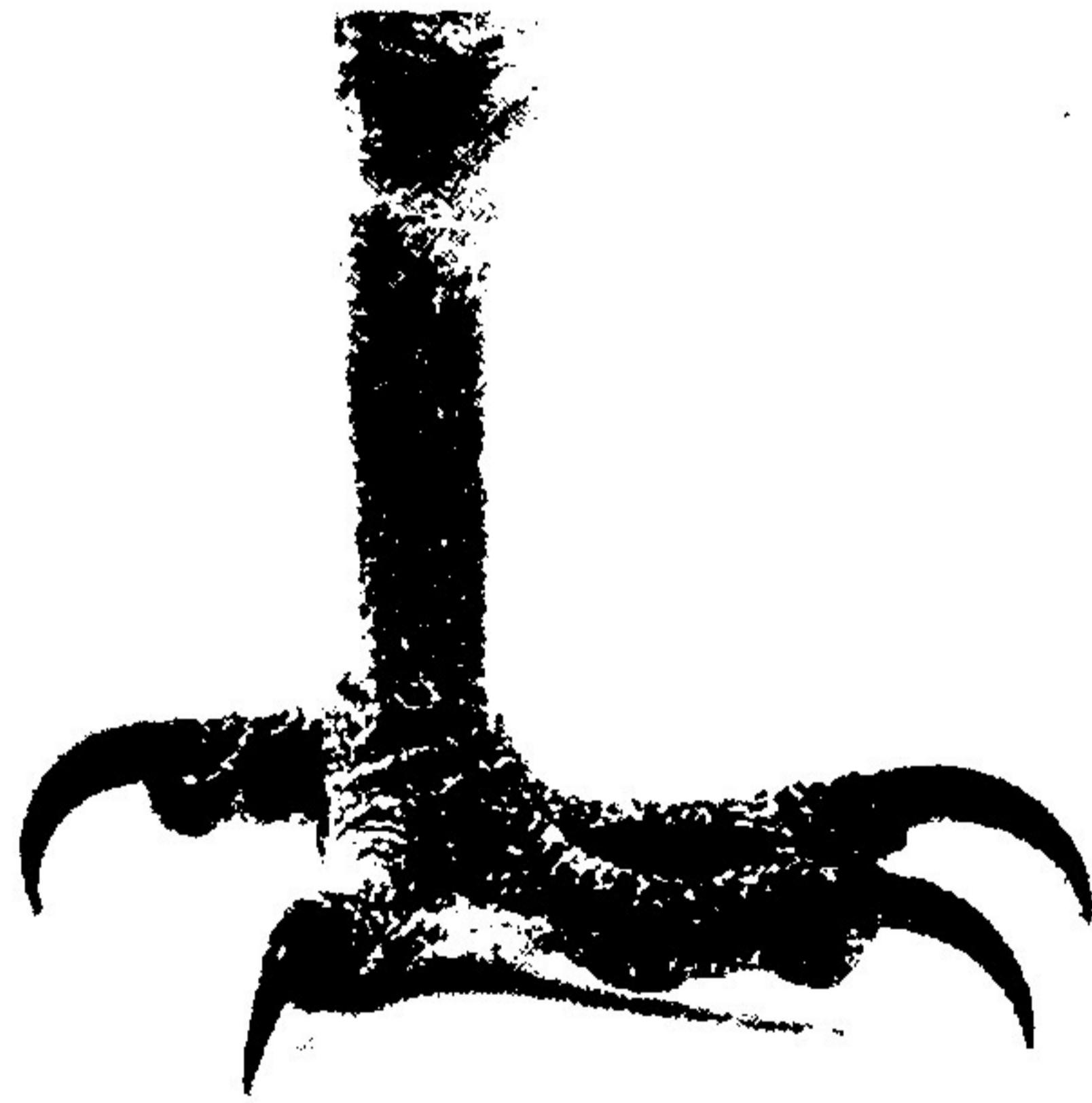
5. What does a mushroom use to reproduce?

6. State the danger of not brushing your teeth regularly.

7. Apart from weevils, give any other insect that destroys crops.

8. State the major role of chlorophyll in the process of Photosynthesis.

The diagram shows a foot of a bird. Use it to answer question 9 and 10.



9. Give example of a bird with the above foot.

10. How useful is the nature of the above foot to the bird?

11. State any one advantage of breastfeeding to a mother.

12. What do we call a condition when a person does not have enough red blood cells?

13. How does a single fixed pulley make work easy?

14. Which part of the ear is essential for body balancing?

15. Apart from charcoal burning, name one practice that is a danger to trees.

16. How can dairy farmers control the spread of mastitis on the farm?

17. Give a reason why food is digested in the body.

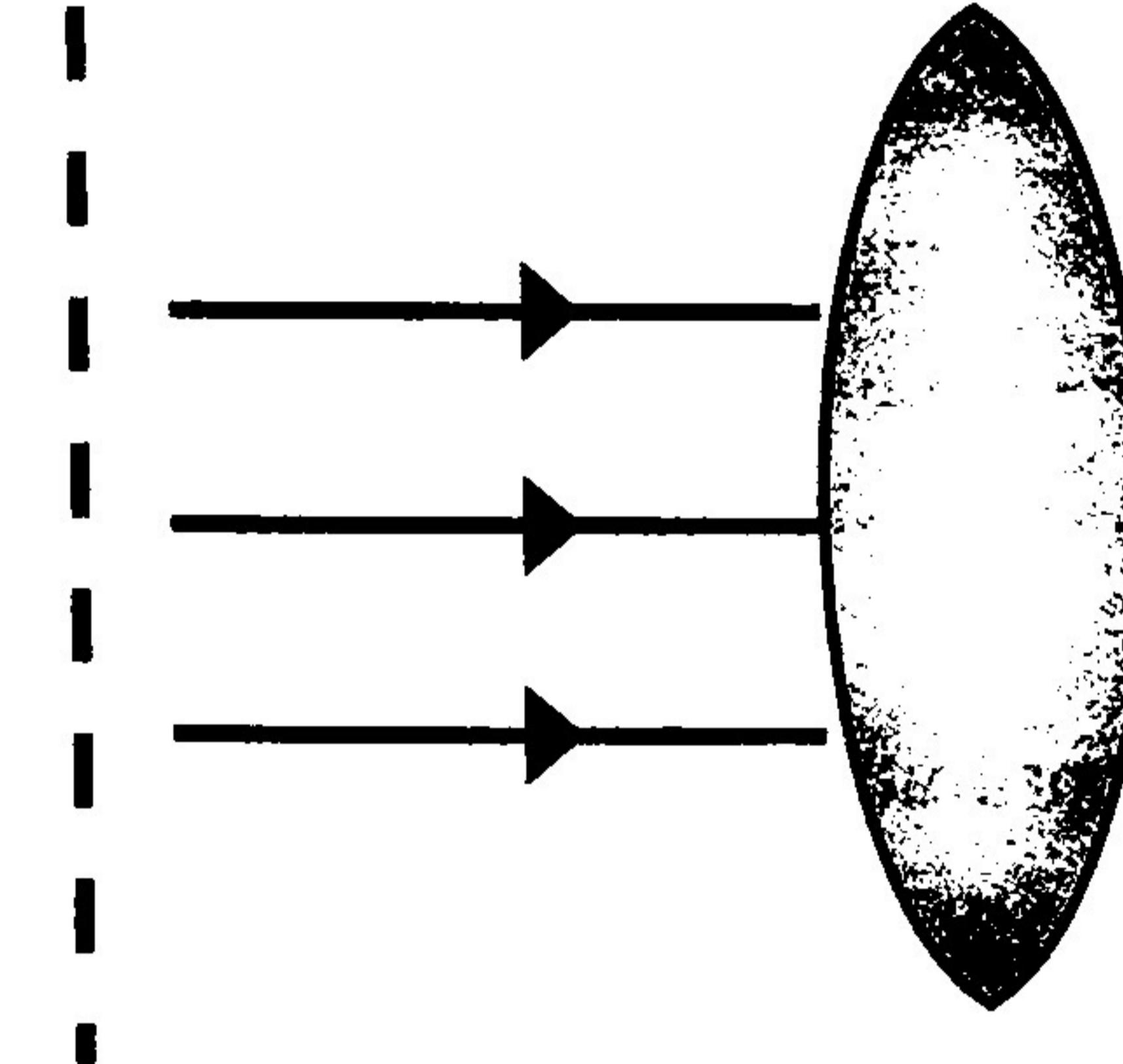
18. Give a reason why a grasshopper is an arthropod.

19. Which group of flowering plants mainly have parallel leaf venation?

20. What is the use of synovial fluid in the human body?

21. How are lungs adapted to gaseous exchange in man?

22. Complete the diagram below correctly.



23. What is the use of ORS to a child with diarrhoea?

24. Why does ice float on water yet it is a solid?

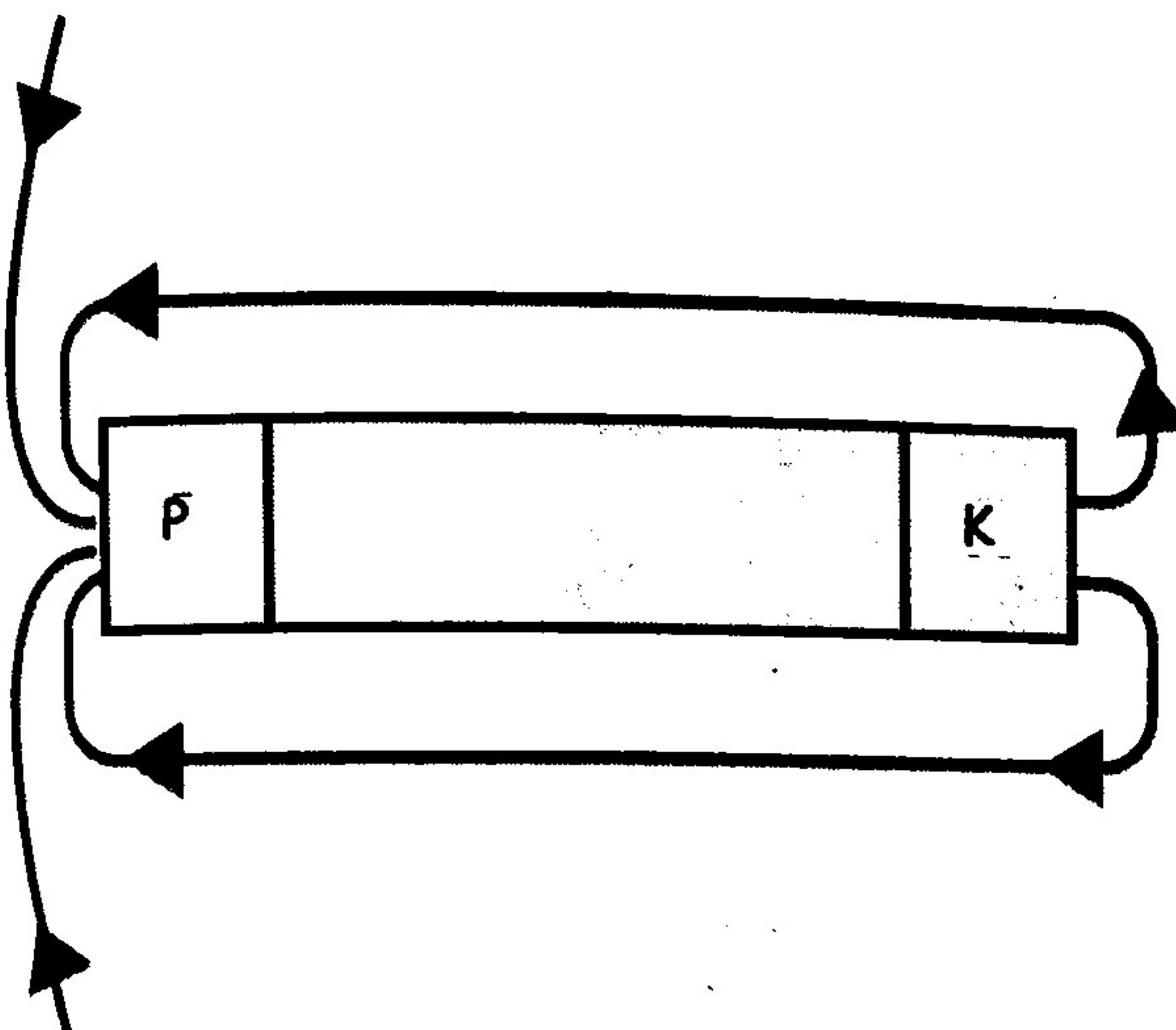
25. Which immunisable disease paralyses limbs of human beings?

26. What causes evaporation in a water cycle?

27. Give one activity of sanitation that reduces the spread of malaria in a community.

28. By what process does oxygen and food enter the placenta?

29. Why is pole marked K a north pole?



30. Name the process root hairs use to absorb water from the soil.

31. How is recycling of wastes important to the environment?

32. Why is a queen excluder important in a top bar hive?

33. Which practice of cultivation reduces soil erosion in hilly areas?

34. Why do car tyres wear out faster on tarmac roads than on murram roads?

35. Give a reason why drugs should be kept in a cool/dry place?

36. How can water be an energy resource?

37. Which part of a living house allows stale air out?

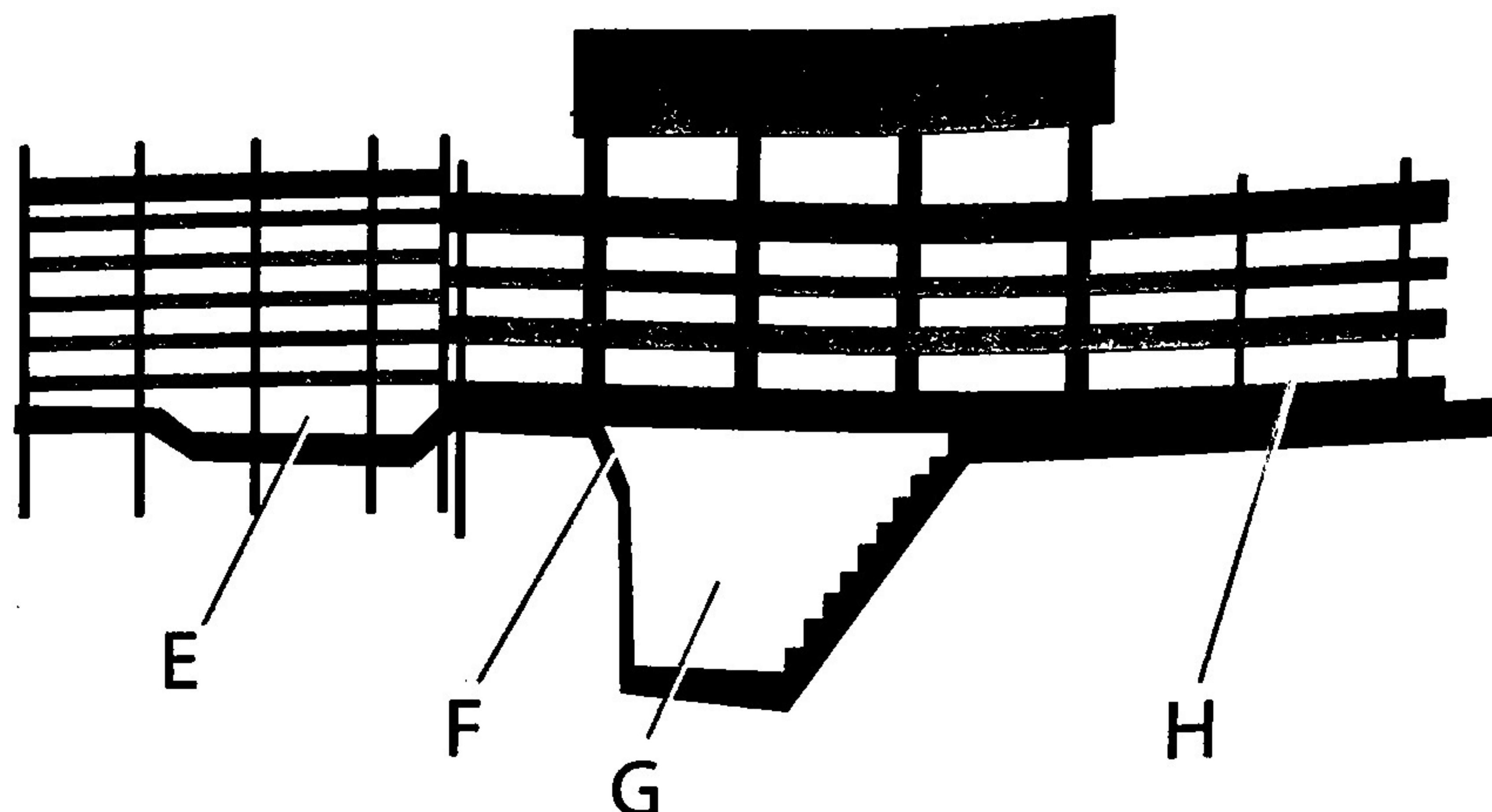
38. What is the use of a dorsal fin to a tilapia fish?

39. Give a reason why arteries have thick walls.

40. State any one property of solid states of matter.

## SECTION B

41. The diagram below shows a farm structure used for dipping cattle on a cattle farm. Use it to answer questions that follow



a) Name the part labelled E in the above structure.

b) How is part marked H useful in the above structure?

c) In which way is the chemical found in part G able to control heartwater on the farm?

d) Mention one advantage of using the above facility for controlling ticks over spraying.

42. a) Mention any two safety precautions given when using electricity at home.

i) .....

ii) .....

b) How are gloves able to protect an electrician when repairing electrical devices?

c) State any one reason why electricity can be a bad master at home.

43. a) State the meaning of the term puberty.

b) Give any two primary sex changes that are common in both girls and boys.

i) .....

ii) .....

c) Mention any one problem faced by adolescents due to emotional sex changes in their bodies.

44. a) Give any two roles of a health prefect in a school.

i) .....

ii) .....

b) How is a child immunisation card useful to the school health committee?

c) State any one feature on a health card which enables the doctor to prescribe medicine correctly for a child.

45. a) Give two examples of the following changes in plants.

i) Biological changes.

1) .....

2) .....

ii) Chemical changes.

1) .....

2) .....

**MOCK EXAM**

b) State any two effects of natural changes in the environment.

- i) .....  
ii) .....

46. a) Give any two roles played by NEMA in environmental protection in Uganda.

- i) .....  
ii) .....

b) Mention any ways NEMA has protected the environment in Uganda against degradation.

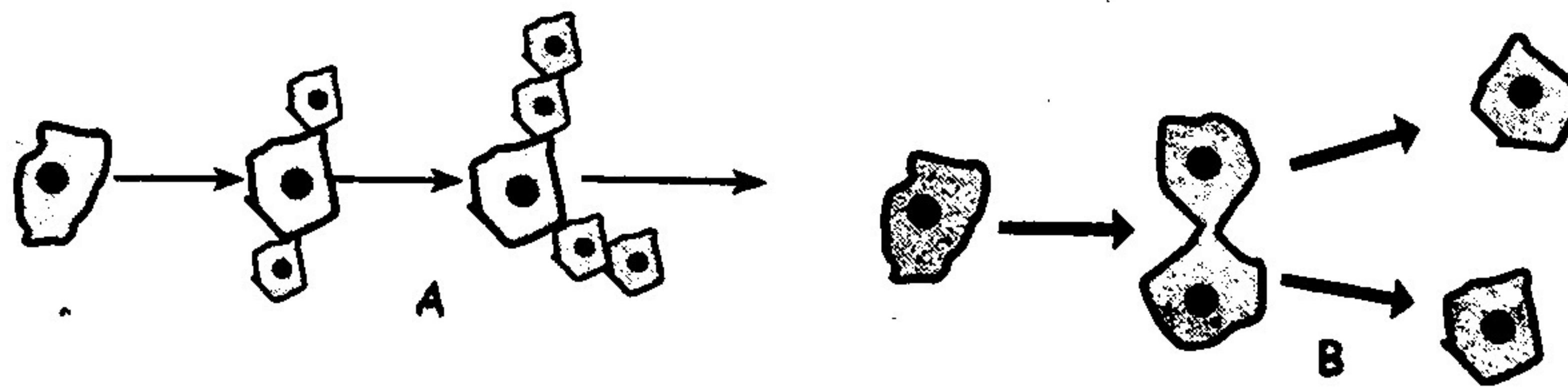
47. a) State what happens to the following when water changes to ice:

- i) mass: .....  
ii) density: .....

b) Name any two instruments used for measuring mass of objects.

- i) .....  
ii) .....

48. The diagram below shows a common mode of reproduction in organisms. Use it to answer questions that follow.



a) Name the mode of reproduction shown in the diagram labelled A and B

- A : .....  
B : .....

b) Identify one organism that reproduces using mode A of reproduction.

c) How is reproduction in living things useful in the environment?

49. a) Which structure in the human heart prevents the deoxygenated blood from mixing with oxygenated blood?

b) Mention the main reason why blood is pumped to the lungs.

c) Name the chamber of the heart that does the following activities during blood circulation:

- i) receives deoxygenated blood from all body parts.

- ii) Pumps blood to all body parts.

50. a) Give the meaning of the term 'air pollution'

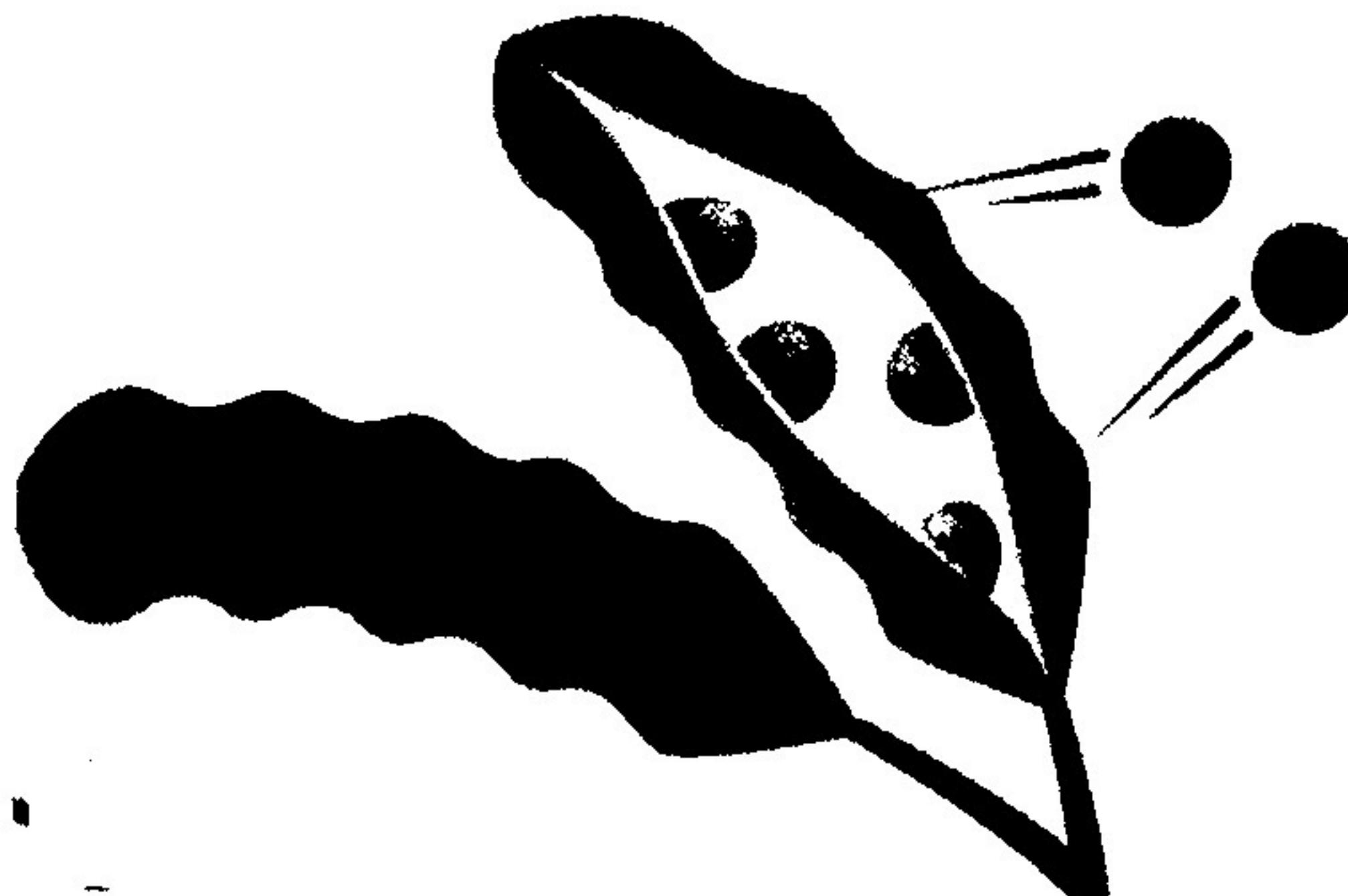
b) Mention any one pollutant of air in the environment.

c) Apart from air pollution, name any other one type of pollution.

d) Give one way of protecting the environment against pollution.

51. The diagram below shows a type of seed dispersal.

Use it to answer questions that follow.



a) Name the type of seed dispersal shown in the diagram above.

b) State any one way the above fruit is adapted to the mode of seed dispersal shown above.

c) Name any two advantages of the process shown in the diagram above to the environment.

- i) .....  
ii) .....

52. a) What are health concerns?

b) Which health concern is addressed by the following:

- i) growing enough food in a family.

- ii) constructing boreholes in a community.

- iii) providing dustbins.

53. a) How can a farmer control the following poultry vices?

- i) Egg eating. ....

- ii) Cannibalism: ....

b) Give two effects of vices in poultry.

- i) .....  
ii) .....

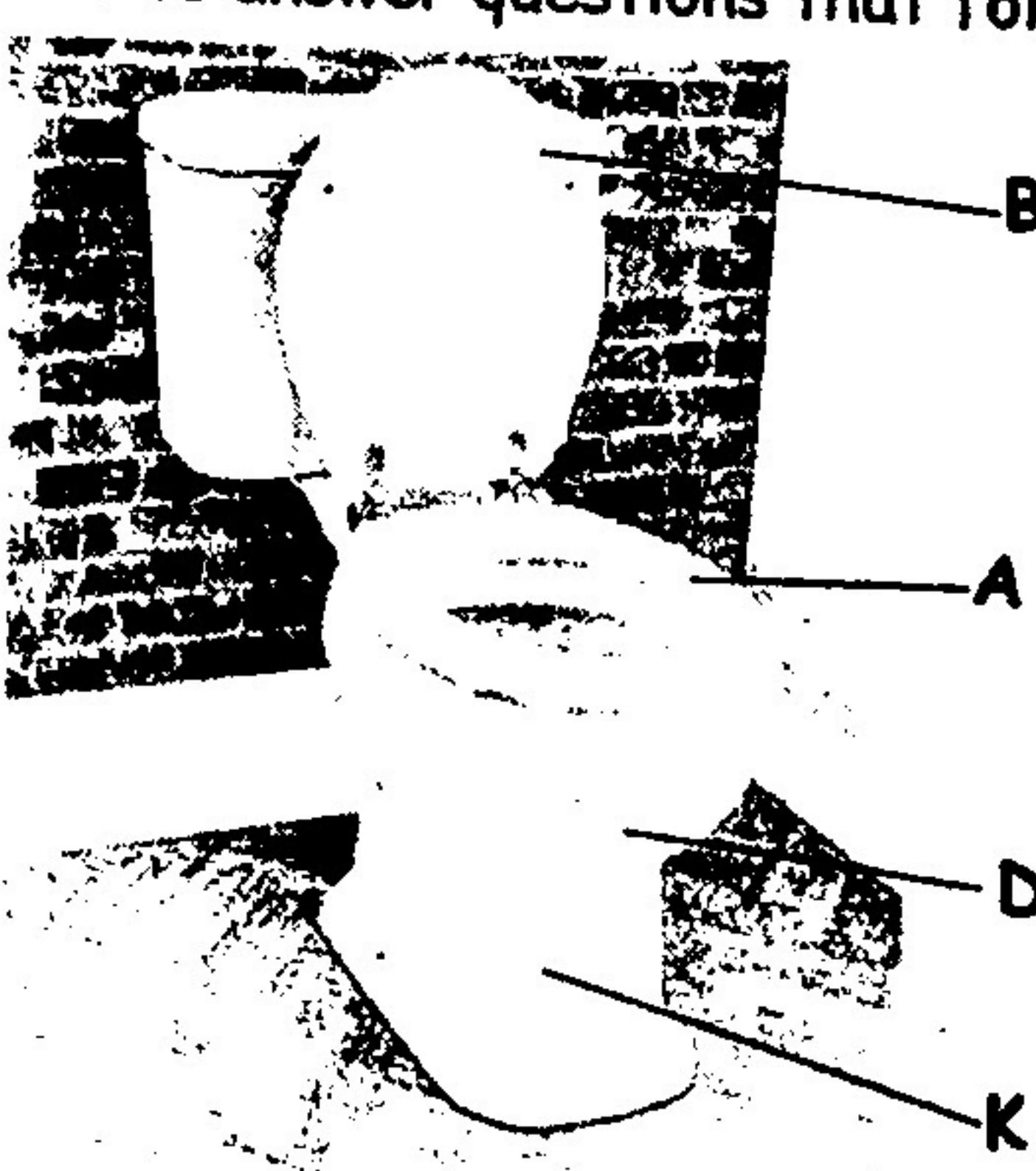
54. a) Give two effects of heat on a piece of metal.

- i) .....  
ii) .....

b) Mention two advantages of heat transfer by convection in our daily life.

- i) .....  
ii) .....

55. The diagram below shows a facility used to promote sanitation at home. Use it to answer questions that follow.



a) Name the parts labelled with letters A and B

- A: .....  
B: .....

b) What is the importance of water that remains at the base of the bowel at part K

c) Mention any two ways of caring for the above facility at home.

- i) .....  
ii) .....