

## **SECTION A: 40 MARKS**

### **Question 1 to 40 carry one mark each**

1. State the injury caused by steam to a human body.

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2. What type of electricity is lightning?

.....

3. Give any **one** way in which termites benefit from soil.

.....

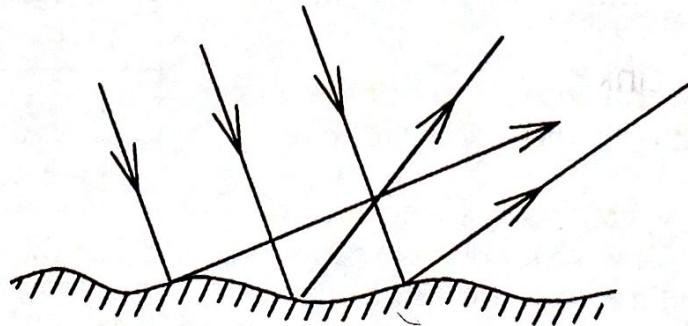
4. State **one** effect of gonorrhoea on the female reproductive system.

.....

5. What is the importance of gap filling in crop growing?

.....

The diagram below shows reflection of light. Study and use it to answer questions **6** and **7**.



6. What type of reflection is shown above?

.....

7. Why are the rays reflected as shown in the diagram?

.....

8. State any **one** way in which alcoholism affects a family.

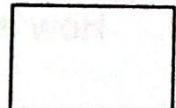
.....

9. State any **one** reason why animals make sound.

.....

10. Name the process through which water turns into ice.

.....



11. In which **one** way does tooth paste promote oral health?

.....  
.....

12. State any **one** physical change that takes place during the process of distillation of alcohol.

.....

13. What is the importance of the rings of cartilage of the trachea in the respiratory system?

.....

14. Why does a nail sink in water?

.....  
.....

15. Give any **one** danger of wetland drainage to water animals.

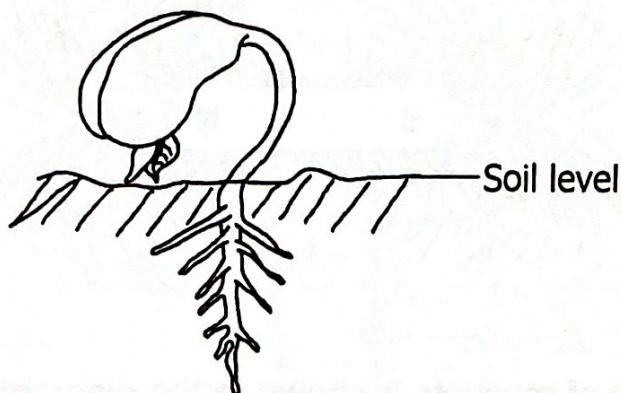
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16. State any **one** principle of Primary Health Care.

.....

17. Why are laying boxes put in dark corners of a poultry house?
- .....  
.....  
.....
18. Apart from causing diseases, give **one** other way in which fungi are harmful to people.
- .....  
.....  
.....
19. How is a reflected sound helpful to sailors?
- .....  
.....  
.....
20. Give **one** way in which molluscs are different from other invertebrates.
- .....  
.....  
.....
21. Give any **one** mineral deficiency disease in humans.
- .....  
.....  
.....
22. Name the type of bees which develops from unfertilized eggs.
- .....  
.....  
.....
23. State any **one** way in which the spread of germs by houseflies can be controlled.
- .....  
.....  
.....

The diagram below shows a germinating seed. Study and use it to answer questions **24** and **25**.



24. What type of germination is shown in the diagram above?

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25. To which group of flowering plants does the germinating seed belong?

.....

26. State any **one** way in which saliva is useful in the process of digestion.

.....

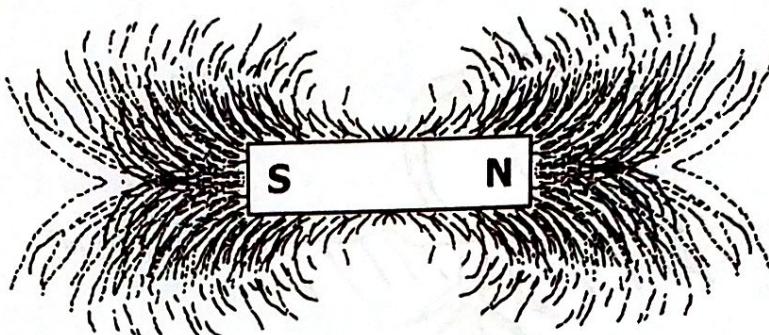
27. Name the vaccine which is given to prevent three childhood immunisable diseases.

.....

28. Give **one** reason why less effort is applied to move a load using first class levers.

.....

29. The diagram below shows a bar magnet with iron filings around it. Study and use it to answer the question that follows.



Which property of magnets is shown in the diagram?

30. State any **one** sign of disease on plant leaves.

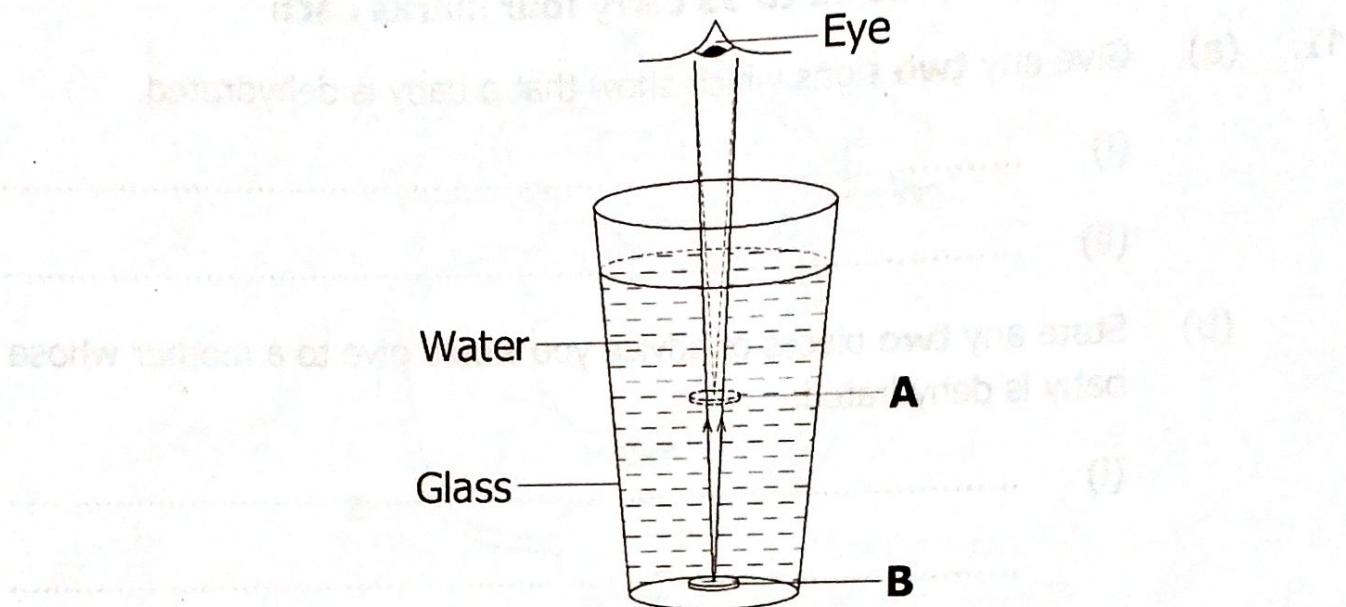
31. Name the organ which regulates the human body temperature.

32. State any **one** way in which animals can be used as energy resources.

33. Which method of harvesting trees allows new shoots to grow from the stump?

34. Give any **one** way of controlling the bad smell in an ordinary pit latrine.

35. The diagram below shows an object in a glass of water. Study and use it to answer the question that follows.



Why does the object seem to appear at point **A** yet it is at point **B**?

.....

.....

36. State any **one** sign of the snuffle disease in rabbits.
- .....

37. Which property of air makes the lungs expand when we breathe in?
- .....

38. Apart from curing diseases, give **one** other characteristic of essential drugs.
- .....

39. Why is biogas regarded as an environmentally friendly source of energy?
- .....

40. State any **one** characteristic of seeds dispersed by wind.
- .....

## **SECTION B: 60 MARKS**

**Questions 41 to 55 carry four marks each**

41. (a) Give any **two** signs which show that a baby is dehydrated.

(i) .....

(ii) .....

- (b) State any **two** pieces of advice you would give to a mother whose baby is dehydrated.

(i) .....

.....

(ii) .....

.....

42. (a) Use the living things listed below to complete the given food chain.

Lion, Goat, Grass

..... → Goat → .....

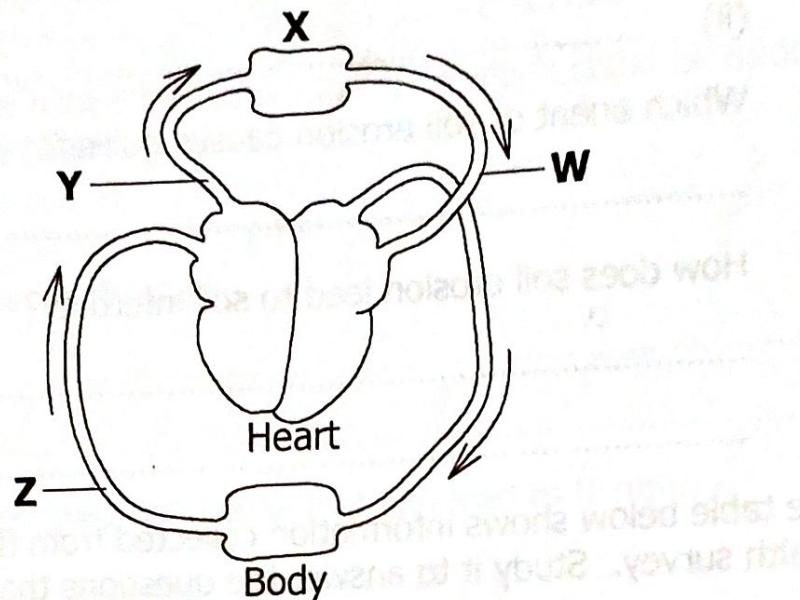
- (b) Which one of the living things in the food chain above is a producer?

.....

- (c) What is the source of energy for the producer in the food chain above?

.....

43. The diagram below shows circulation of blood in the human body. Study and use it to answer the questions that follow.



(a) Name the organ marked with letter X.

.....

(b) Which blood vessel is marked with letter W?

.....

(c) State the similarity between blood vessel Y and blood vessel Z.

.....

.....

(d) Why does blood vessel W bring blood back to the heart?

.....

.....



44. (a) Write down any **two** causes of soil erosion.

(i) .....

(ii) .....

(b) Which agent of soil erosion causes gullies?

.....

(c) How does soil erosion lead to soil infertility?

.....

.....

45. The table below shows information collected from five homes during a health survey. Study it to answer the questions that follow.

| Homes | Sanitation items checked |             |                 |             |
|-------|--------------------------|-------------|-----------------|-------------|
|       | Latrine                  | Rubbish pit | Bathing shelter | Drying rack |
| A     | X                        | X           | ✓               | X           |
| B     | ✓                        | ✓           | ✓               | ✓           |
| C     | X                        | ✓           | ✓               | ✓           |
| D     | X                        | X           | X               | ✓           |
| E     | X                        | ✓           | ✓               | X           |

**Key**

X = Item missing.

✓ = Item present.

(a) Which home had all the sanitation items?

.....

(b) Identify the sanitation item missing in most of the homes surveyed.

.....

(c) Name any **one** disease that is likely to attack homes A, C, D and E.

.....

(d) Give any **one** other sanitation item which could be added in the health survey.

.....

46. (a) What causes fainting?

.....

.....

(b) State any **two** conditions that can lead to fainting.

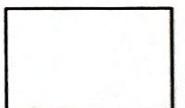
(i) .....

(ii) .....

(c) Why are the legs of a person who has fainted raised higher than the head when giving First Aid?

.....

.....



47. Use the list of crops given below to answer the questions that follow.

conifer, coffee, cassava, groundnut

(a) Which crop on the list is propagated by use of stem cutting?

.....

(b) Identify any **one** crop on the list which is:

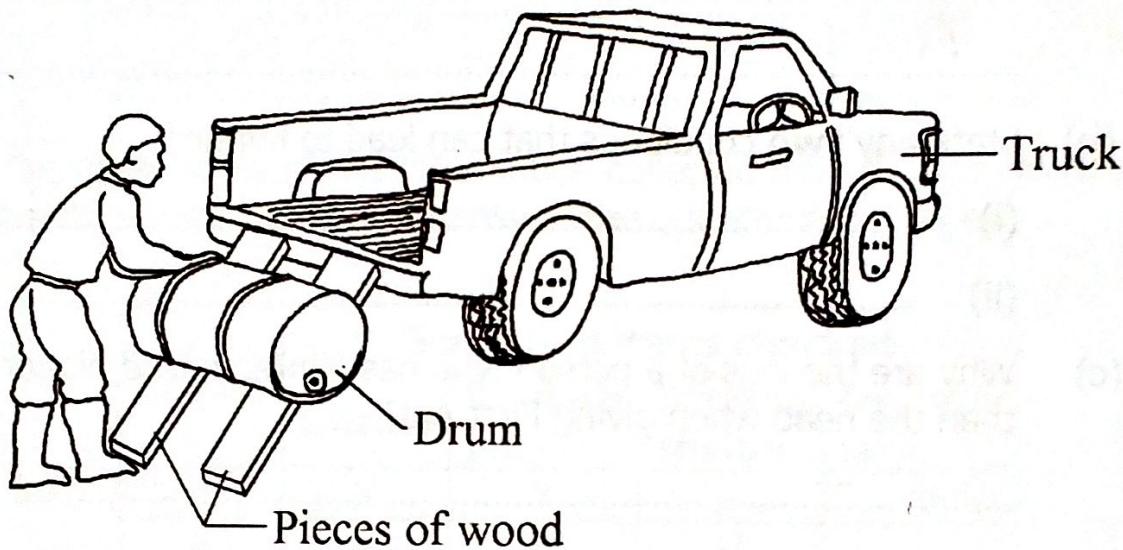
(i) an annual crop.

.....

(ii) a perennial crop.

- (c) Give any **one** way in which a conifer is different from all the other crops on the list.
- .....  
.....  
.....

48. The diagram below shows a man using a simple machine to load a drum onto a truck. Study and use it to answer the questions that follow.



- (a) What type of simple machine is the man using?
- .....

- (b) Give any **two** examples of the type of simple machine you have named in (a) above.

(i) .....

(ii) .....

- (c) How can the man improve on the simple machine above in order to make his work easier?
- .....  
.....

49. (a) Which breed of cattle is obtained by mating a pure local breed and an exotic breed?

.....

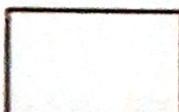
(b) Give any **two** reasons why some farmers prefer keeping local breeds of cattle to exotic breeds.

(i) .....

(ii) .....

(c) State any **one** characteristic of dairy cattle.

.....



50. (a) Name any **two** bones that form the joint at the knee of the human body.

(i) .....

(ii) .....

(b) What name is given to the joint at the knee?

.....

(c) In which **one** way is friction reduced at a joint?

.....

.....

51. The table below shows some common infections, organisms that cause it and the body parts affected. Study and complete it correct **Turn Over**

| <b>Common infections</b> | <b>Organisms that cause it</b> | <b>Body parts affected</b> |
|--------------------------|--------------------------------|----------------------------|
| .....                    | Chlamydia                      | Eyes                       |
| Tuberculosis             | Bacteria                       | .....                      |
| .....                    | Virus                          | Bones and muscles          |
| Scabies                  | .....                          | Skin                       |

52. (a) Apart from rainfall, give **one** other element of weather necessary for plant growth.

.....

- (b) In which **two** ways is rainfall important for plant growth?

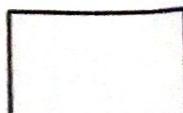
(i) .....

(ii) .....

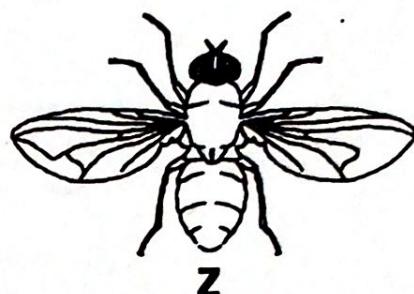
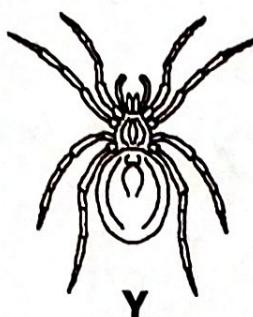
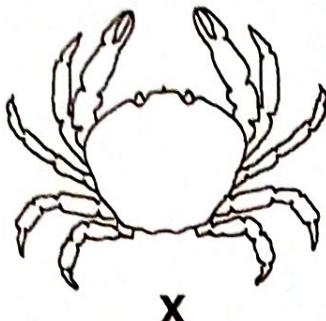
- (c) State any **one** disadvantage of too much rainfall to plants.

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53. The diagrams below show animals in the arthropods group. Study and use them to answer the questions that follow.



(a) Name the group of arthropods to which animals **X** and **Y** belong.

- (i) **X** .....
- (ii) **Y** .....

(b) Give any **one** reason why animal **Y** does not belong to the same group as animal **Z**.

.....

(c) How are animals **X**, **Y** and **Z** similar in the way they reproduce?

.....

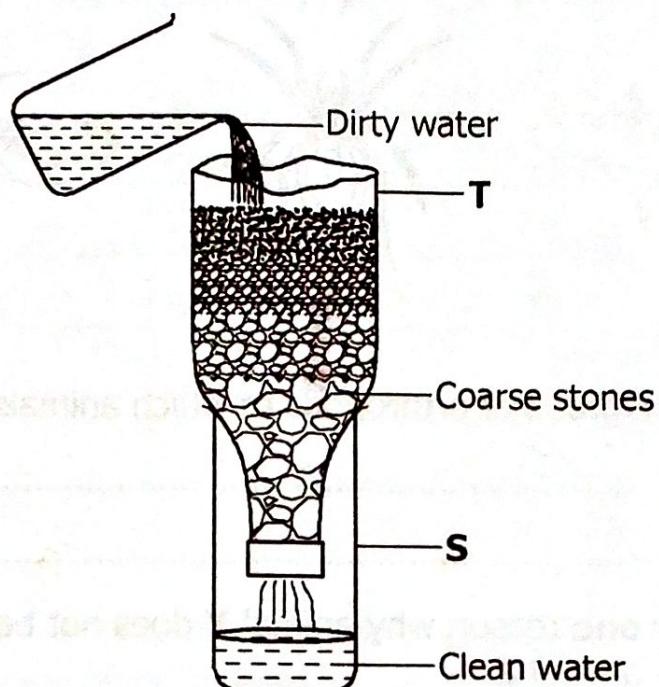
54. (a) Apart from raising the temperature of substances, give any **two** effects of heat on matter.

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

(b) State any **two** ways in which heat transfer by conduction is important to people.

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

55. The diagram below shows a simple method of making water clean. Study and use it to answer the questions that follow.



(a) Name the method shown above.

(b) Apart from the coarse stones, name any **two** other local materials which are placed in container **T**.

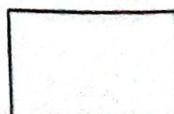
(i) .....

(ii) .....

(c) Why should the clean water obtained in container **S** be boiled before drinking?

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**END**