

**PRIMARY SEVEN**  
**BASIC SCIENCE AND HEALTH EDUCATION**

*Time allowed: 2 hours 15 minutes*

Index No.

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Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

School Name: \_\_\_\_\_

**Read the following instructions carefully:**

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 40 questions (40 marks)
3. Section **B** has 15 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary crossing of work may lead to loss of mark
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated;  
For Examiner's use only.

<b>FOR EXAMINER'S USE ONLY</b>
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<b>FOR EXAMINER'S USE ONLY</b>
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Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
<b>TOTAL</b>		

*Turn over*

**SECTION A: 40 MARKS**

**(Questions 1 to 40 carry one mark each)**

1. Name the breathing organ for a fish.

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2. Mention the disease caused by lack of enough proteins in the body.

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3. What is a pest?

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4. Give one use of roots to a plant.

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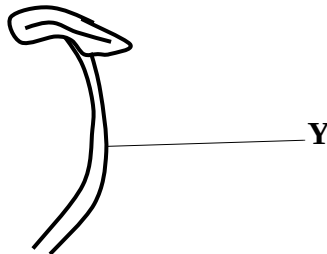
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5. Name the second stage in the life-cycle of a butterfly.

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The diagram below shows part of a flower. Use it to answer questions 6 and 7.



6. What name is given to the part of the flower shown above?

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7. Name the part marked with letter Y.

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8. What is temperature?

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9. Why do some plants climb others?

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10. Give one reason why health workers advise people to do physical body exercises.

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11. Name the bone that protects the brain.

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12. How is a housefly able to spread diseases?

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13. Why do some objects float on water?

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14. Give one sign of intestinal worms in the body.

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15. How do mushrooms reproduce?

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16. Why is it not possible for plants to make their own food at night?

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17. Why should we keep our toilets clean?

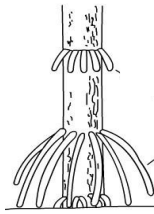
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18. What is a scald?

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The diagram below shows roots of a plant. Use it to answer question 19.



19. Identify the group of crops that bear such roots as shown above.

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20. Write down one characteristic of loam soil.

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21. State any one skeletal disease that is immunisable.

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22. Why do farmers mulch their gardens?

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23. State the commonest traditional method of preserving fish in Uganda.

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24. How is a nursery bed important in crop growing?

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25. Why do animals make sounds?

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26. What danger can drought cause to food path?

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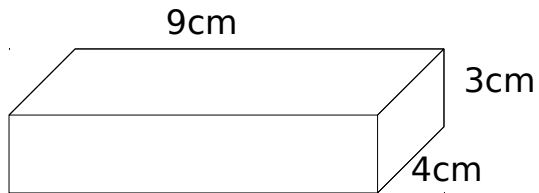
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27. How does man benefit from afforestation?

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28. Calculate the volume of the cuboid below.



29. State any one cause of soil erosion.

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30. Why do farmers carry out seed selection?

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31. How do hook worms enter our bodies?

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32. How can you avoid the spread of malaria at home?

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33. Why do you think that stones do not grow?

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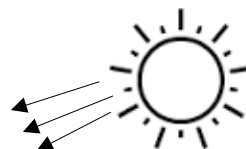
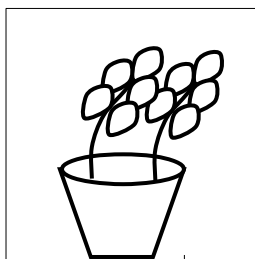
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34. Name one element of weather.

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The diagram below shows a plant response to a stimulus. Study it carefully and answer question 35.



35. Name the tropism shown in the diagram above.

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36. How much sugar is needed to prepare ORS at home?

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37. Why is breast milk the best food for babies?

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38. Why do we have to brush our teeth after every meal?

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39. Identify one object that can sink in water.

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40. In the space provided below, draw a simple leaf.



**SECTION B**

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

41(a) What do you understand by the following:

(i) Germination?

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(ii) Photosynthesis?

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(b) Which part of a flower develops into;

(i) A seed?

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(ii) A fruit?

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42. Give one reason for practicing each of the following habits:

(a) Keeping our fingernails short

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(b) Ironing our clothes regularly

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(c) Sitting in an upright position

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(d) Sweeping the classroom

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43(a) Name two processes that take place during the rain cycle.

(i)

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(ii)

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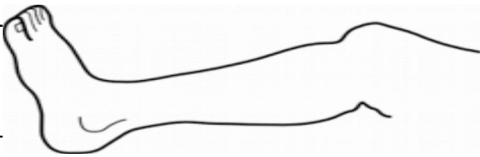
(b) State any one human activity that can lead to drought in an area.

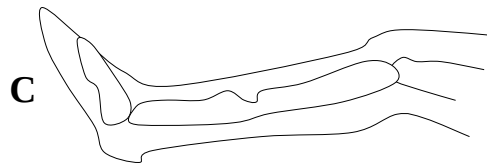
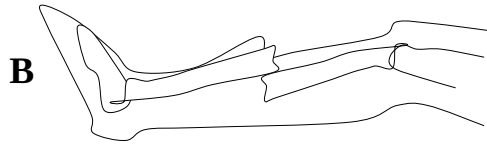
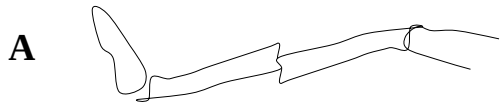
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(c) How is the sun useful during rain formation?

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44. Study the  and answer the questions that follow.



(a) Name the types of fracture **A**, **B** and **C**.

**A** \_\_\_\_\_  
**B** \_\_\_\_\_  
**C** \_\_\_\_\_

(b) Why do we apply splints on a fractured bone?

\_\_\_\_\_  
 \_\_\_\_\_

45. Match the vectors in list **A** with the diseases they spread in list **B**.

(A) VECTORS	(B) DISEASES
Tsetse fly	plague
Culex mosquito	cholera
Housefly	Nagana
Rat fleas	elephantiasis
	scabies

(i) Tsetsefly \_\_\_\_\_  
 (ii) Culex mosquito \_\_\_\_\_  
 (iii) Housefly \_\_\_\_\_



(iv) Rat fleas \_\_\_\_\_

46.(a) Name any two pests that attack crops in the field.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Why is a maize stalk borer regarded as a pest?

\_\_\_\_\_  
\_\_\_\_\_

(c) How can we control pests in a maize store?

\_\_\_\_\_  
\_\_\_\_\_

47.(a) What is air?

\_\_\_\_\_  
\_\_\_\_\_

(b) Name two components of air.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) What is the major use of oxygen that is kept in hospitals?

\_\_\_\_\_  
\_\_\_\_\_

The diagram below is of a mushroom. Use it to answer questions that follow.



48.(a) Name parts marked **A** and **B**.

(i) **A** \_\_\_\_\_

(ii) **B** \_\_\_\_\_

(b) How useful is part labelled **C** to a mushroom?

\_\_\_\_\_  
\_\_\_\_\_

(c) To which group of living organisms does a mushroom belong?

\_\_\_\_\_  
\_\_\_\_\_

49.(a) Mention any four classes of food.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(iii) \_\_\_\_\_

(iv) \_\_\_\_\_

50.(a) Give the roles of the following types of bees in a beehive.

(i) Queen bee

\_\_\_\_\_

(ii) Worker bee

\_\_\_\_\_

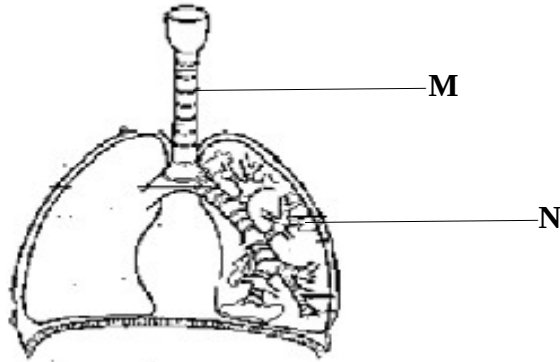
(b) Why can't worker bees lay eggs yet they are female?

\_\_\_\_\_  
\_\_\_\_\_

(c) State the food given to queen bees.

\_\_\_\_\_  
\_\_\_\_\_

51. The diagram below shows respiratory organs. Study it carefully and answer the questions that follow.



(a) Name the parts marked with letters **M** and **N**.

(i) **M** \_\_\_\_\_

(ii) **N** \_\_\_\_\_

(b) Which part of a skeleton protects the organs above ?

\_\_\_\_\_

(c) Name the immunisable disease that attacks the above organ.

\_\_\_\_\_

52(a) what are communicable diseases?

\_\_\_\_\_

\_\_\_\_\_

(b) Name any two communicable diseases.

(i) \_\_\_\_\_

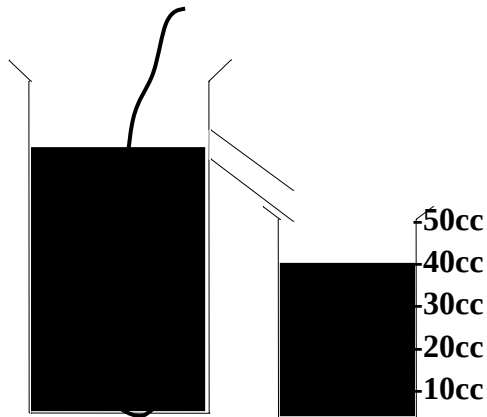
(ii) \_\_\_\_\_

(c) Suggest any one way of controlling communicable diseases.

\_\_\_\_\_

\_\_\_\_\_

53. The diagram below shows an experiment done by a P.4 class. Study it and answer the questions that follow.



(a) Name the container marked with letter **E**.

\_\_\_\_\_

(b) What was the experiment about?

\_\_\_\_\_  
\_\_\_\_\_

(c) State the volume of the stone in the experiment above.

\_\_\_\_\_

(d) Give one reason why the above method was used to measure volume.

\_\_\_\_\_  
\_\_\_\_\_

54.(a) Name one breed of sheep that is good for wool production.

\_\_\_\_\_

(b) Apart from wool, give one other product of a sheep.

\_\_\_\_\_

(c) Give any two reasons why docking in sheep rearing should be carried out.

(i) \_\_\_\_\_

\_\_\_\_\_

(ii) \_\_\_\_\_

\_\_\_\_\_

55.(a) What is food taboo?

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(b) Give any two examples of food taboo.

(i)

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(ii)

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(c) State one advantage of food taboo in the community.

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***Good luck***

