

# THE SIPRO P.7 SPECIAL SET 2024

## INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.

Random No.						Personal No.		

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

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

SES No. \_\_\_\_\_

### READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections: A and \*B.
2. Section A has 40 questions (40 Marks).
3. Section B has 15 questions (60 Marks).
4. Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or ink. Only diagrams and graph work must be done in pencil.
6. Unnecessary alteration of work will lead to loss of marks.
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"

### For Examiner's Use Only:

Qn No.	MARKS	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
Total		

Please turn over



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## SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. To which group of invertebrates does a tick belong?  
\_\_\_\_\_
2. State any **one** factor that affects the rate of transpiration in plants.  
\_\_\_\_\_
3. In which **one** way is the use of solar electricity environmental friendly?  
\_\_\_\_\_
4. Apart from growth, state **one** other importance of proteins to the human body.  
\_\_\_\_\_
5. Which part of the kidney filters blood?  
\_\_\_\_\_
6. State any **one** characteristic that enables clay to keep water for a long time.  
\_\_\_\_\_
7. Give **one** magnetic device used for storing sound.  
\_\_\_\_\_

**The diagram below shows a human body organ. Study and use it to answer questions 8 and 9.**



8. Name the type of joint found in part marked with letter E.  
\_\_\_\_\_
9. State the importance of the organ marked with letter R to a person with permanent deafness.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. Name the slowest method of heat transfer through matter.

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11. How does proper cooking of food control the spread of tapeworms among people?

12. Why is it important to wring clothes before spreading them in the sunshine to dry?

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13. Name any **one** vaccine administered to babies through injection on the left upper thigh.

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14. How does regular pruning control crop pests in a garden?

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15. State any **one** adaptation of wading birds to their movement in mud.

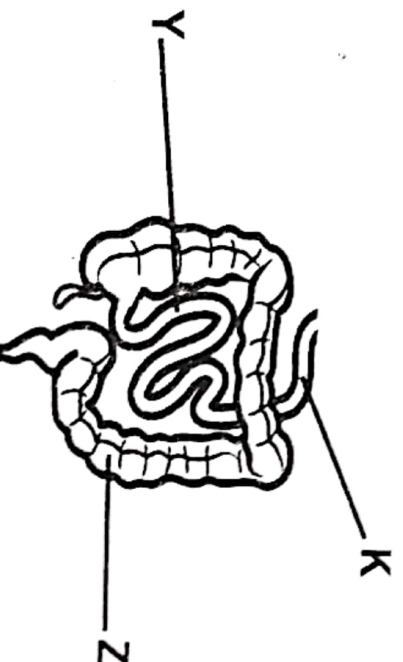
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16. Write any **one** example of information collected during a healthy survey.

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**The diagram below shows part of the digestive system.**  
*Study and use it to answer questions 17 and 18.*

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17. How is part marked with letter **K** well adapted to carrying out digestion of fat and oils?

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18. State the function of part marked with letter Y to the digestive system.

19. How does greasing moving parts of machines reduce friction?

20. Give any **one** characteristic of seeds dispersed by water.



21. In which way is a sunshine recorder an important weather instrument at a weather station?

22. What role is played by yeast in the fermentation of local brew?

23. State any **one** advantage of rearing local breeds of cattle over exotic ones.

24. Why are hyenas commonly seen in areas where lions feed?

25. Name the sensitive part of a tooth.

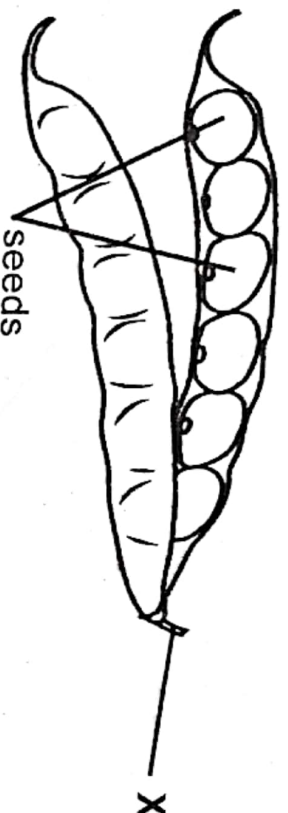
26. Give any **one** reason why people fire bricks before using them for construction.

27. Write any **one** factor that may result into a short circuit.

28. Why are waterborne toilets not commonly used in rural areas?

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**The diagram below shows a bean pod. Study and use it to answer questions 29 and 30.**



29. Name the part marked with letter **X** on the diagram.

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30. Which group of crops stores its seeds in the structure drawn above?

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31. How is the function of a tendon different from that of a ligament in the skeletal system?

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32. Name any **one** disease worsened by tobacco smoking.

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33. In which way are body lice a threat to human health?

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34. Why does deoxygenated blood from the body flow to the heart?

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35. How is the external body structure of a fish similar to that of a bird?

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36. Give a reason why wood for timber should not be dried in direct sunshine.

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37. In which way is a switch similar to a fuse in terms of function?

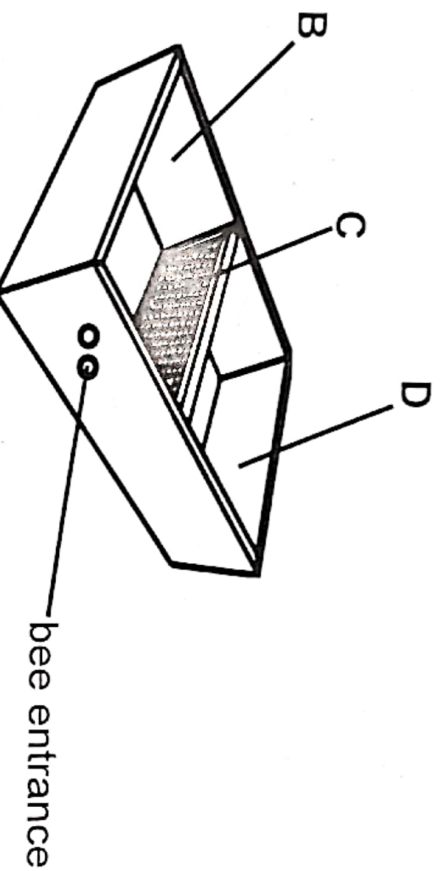
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38. State **one** danger of self medication to the human body.

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**The diagram below is of a beehive. Study and use it to answer questions 39 and 40.**



39. Name the region of the beehive marked with letter **B**.

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40. How does part marked with letter **C** prevent the queen bee from feeding on the honey in region marked with letter **D**?

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**SECTION B: 60 MARKS**



*Questions 41 to 55 carry four marks each.*

41(a) Give **one** similarity between a burn and a scald as common accidents.

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(b) Mention any **one** sign of second degree burns.

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(c) Why is it advisable to give plenty of fluids to a person with a severe burn?

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- (d) What can parents do to protect their children from burns and scalds at home?

42(a) Write any **two** uses of alcohol to a health worker.

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_  
(b) Why is heat important during distillation of alcohol?

- (c) Name the type of alcohol that can cause blindness to people when it gets into contact with their eyes.

43. The diagram below shows a human skin. Study and use it to answer the questions that follow.



- (a) Name the layer marked with letter N.

- (b) State the function of part marked with letter Q.

- (c) Name the pigment that is found in layer marked with letter M.

- (d) How does part marked with letter P behave during sunny weather?



44(a) Write any **one** principle of Primary Health Care.

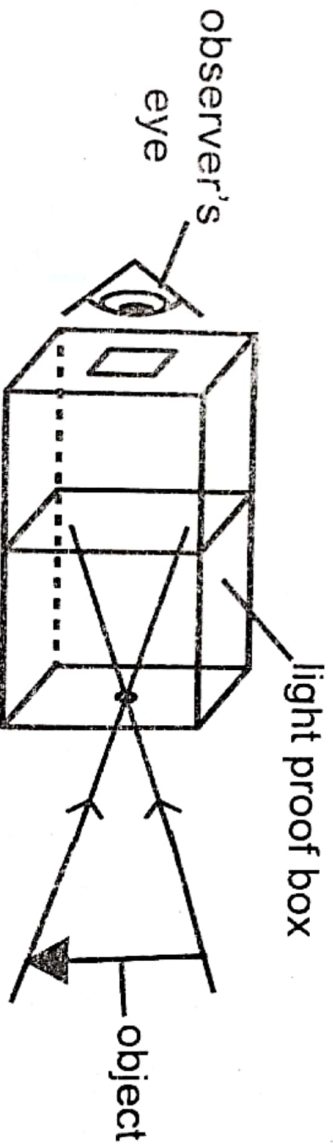
(b) Give any **one** way of promoting the following elements of Primary Health Care:

(i) Health education

(ii) Maternal and Child Health Care

(c) Name the element of Primary Health Care that checks on the human population in a country.

45. The diagram below shows an optical instrument made by a P.7 child. Study and use it to answer the questions that follow.



(a) Name the optical instrument the child made.

(b) On what principle does the optical instrument made by the child work?

(c) Why should the box used be light proof?

(d) Draw the image formed in the diagram above.



46(a) Give any **one** factor that promotes the breeding of bacteria.

(b) How do bacteria reproduce?

(c) Which instrument do health workers use for detecting the presence of bacteria in one's blood?

(d) State any **one** way bacteria are useful in a milk processing industry.

47(a) Write any **two** artificial vegetative methods of plant propagation.

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

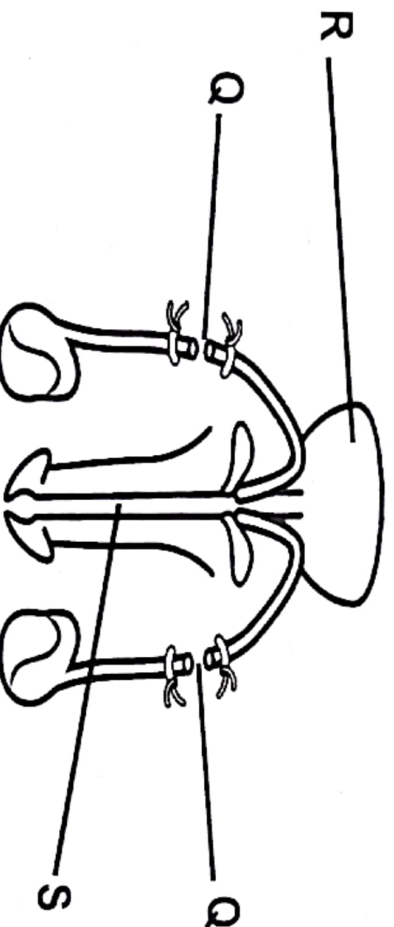
(ii) \_\_\_\_\_

(b) Give any **two** advantages of using artificial vegetative methods of propagating plants.

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

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

48. The diagram below is of part of the male reproductive system.  
*Study and use it to answer the questions that follow.*



(a) Name the body organ labelled with letter R.

(b) State the reproductive function of part marked with letter S.

(c) Which family planning method is represented at part Q?

(d) Give **one** way of keeping the male reproductive system healthy.

49(a) Give any **one** use of magnets to each of the following people;

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

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

(b) Write any **one** practice that can make a magnet lose magnetisation.  
\_\_\_\_\_

(c) State any **one** way of maintaining magnetism in artificial magnets.  
\_\_\_\_\_

50. The diagram below is of a female grasshopper. Study and use it to answer the questions that follow.



(a) Name the parts labelled with letters **D** and **E**.

(i) **D** \_\_\_\_\_

(ii) **E** \_\_\_\_\_

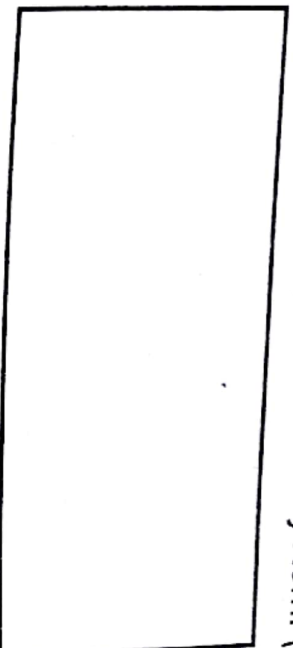
(b) Apart from feeling, how else is part marked with letter **C** useful to an insect?  
\_\_\_\_\_

(c) What name is given to the second stage in the lifecycle of the above drawn insect?  
\_\_\_\_\_

51(a) Name the roots that develop on a maize plant during flowering.  
\_\_\_\_\_

(b) Why does a maize plant develop the roots mentioned in (a) above during flowering?  
\_\_\_\_\_  
\_\_\_\_\_

(c) In the space below, draw the fibrous root system. (2 marks)



52(a) Write any **one** viral and protozoan disease among poultry:

- (i) viral disease \_\_\_\_\_
- (ii) protozoan disease \_\_\_\_\_
- (b) Give **two** ways poultry diseases lower the reproduction among poultry.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_



53(a) In which group of levers are the following simple machines classified?

- (i) wheelbarrow \_\_\_\_\_
- (ii) lid opener \_\_\_\_\_
- (b) Give any **two** ways of increasing the efficiency of simple machines.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

54(a) How does a snake differ from a frog in terms of reproduction?

\_\_\_\_\_

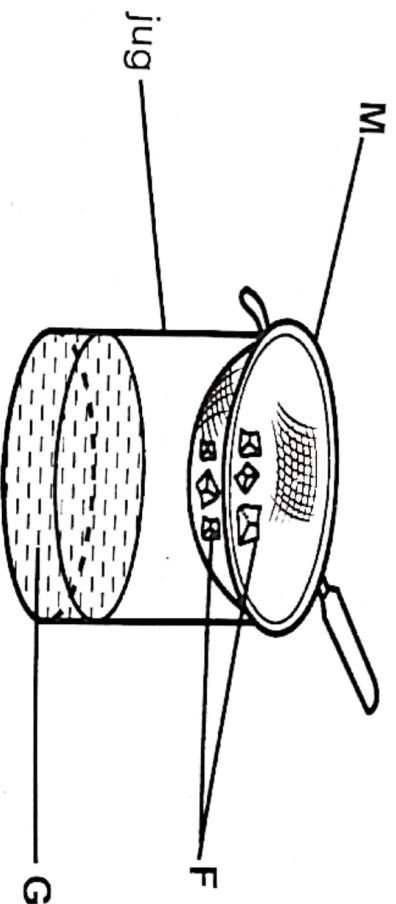
(b) Write any **one** danger of snakes in the environment.

\_\_\_\_\_

(c) Mention any **two** ways of preventing snakes in our homes.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

55. The diagram below shows a practical set-up about preparing passion fruit juice. Study and use it to answer the questions that follow.



(a) Which method of separating mixtures is illustrated in the diagram above?

(b) Name the parts labelled with letters F and G.

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

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

(c) Give the function of part marked with letter M.

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