



THE **PRIME EXAMINATIONS** 2024

# P.7 MAGIC SET VI

INTEGRATED SCIENCE

Time allowed 2 hours 15 minutes

INDEX NO:

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Candidate's Name: .....

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## READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. Do not write your school or district name anywhere on this paper.
2. This paper has two sections: A and B Section A has 40 questions and section B has 15 questions. The paper has 9 printed pages.
3. Answer all questions. All answers to both sections A and B must be written in the spaces provided.
4. All answers must be written using a blue or black ball point pen or ink. Any work written in pencil other than graphs and diagrams will not be marked.
5. Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in the table indicated "For Examiners' use only", and those boxes inside the question paper.

## FOR EXAMINERS' USE ONLY

QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 45		
46 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

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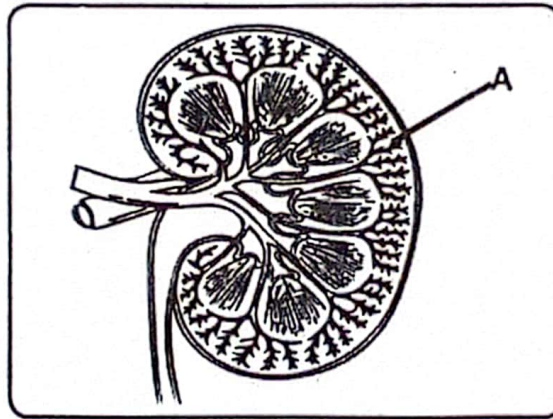
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**Section A (40 Marks)**

1. Name any one type of poultry.
2. State any one way how a single fixed pulley is used in a school.
3. How does frequency affect the pitch of sound?
4. Give any one factor that causes fainting in people.
5. State any one way in which VIP latrines control a bad smell in our homes.

The diagram below shows a human body organ. Study and use it to answer questions 6 and 7.



6. Name the human body organ shown in the diagram above.
7. State the function of part marked with letter A to the body organ shown above.
8. How does contour ploughing control soil erosion?
9. Mention the fungal disease that affects the reproductive system of people.



10. How can a family help to ensure safe motherhood?

\_\_\_\_\_

11. State one cause of indigestion as a digestive disorder.

\_\_\_\_\_

12. Give any one quality of essential drugs.

\_\_\_\_\_

13. State one application of melting to a black smith.

\_\_\_\_\_

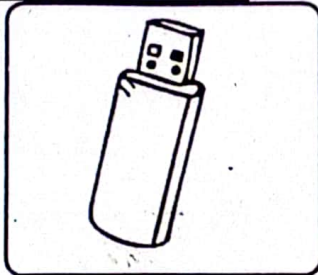
14. In which one way are white blood cells adapted to protecting the body against diseases?

\_\_\_\_\_

15. How are plants useful in the process of rain formation?

\_\_\_\_\_

**The diagram below shows an item used to store sound. Study and use it to answer questions 16 and 17.**



16. Name the storage item shown in the diagram above.

\_\_\_\_\_

17. Mention one device that uses the storage item shown above to reproduce the stored sound.

\_\_\_\_\_

18. Give one reason for brushing teeth regularly.

\_\_\_\_\_

19. State the importance of bacteria in a food chain.

\_\_\_\_\_

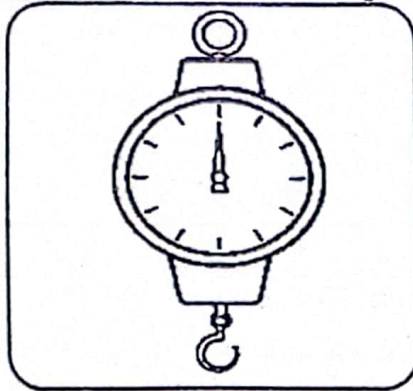
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20. Apart from using fire extinguishers, state any one other way of putting off fire.
21. State any one way how school health parades help to promote health.
22. What is meant by the term child spacing?
23. State the benefit of feeding an anaemic person on animal liver.
24. Name the component of air needed for seed germination.
25. Give any one primary sex characteristic common in both adolescent boys and girls.
26. Give any one importance of heat transfer by conduction when preparing food at home.
27. How is tobacco smoking dangerous to the human respiratory system?
28. Mention any one piece of information found on a child health card.
29. Apart from turning windmills, give one other way how wind is useful to man.
30. State one way in which some weeds can be useful to people.
31. Give one advantage of using modern bee hives than local bee hives.
32. Which body organ is protected by the vertebral column?



**Section B (60 Marks)**

41. **The diagram below shows an instrument used for determining weight of an object. Study and use it to answer the questions that follow.**



- (a) Identify the instrument shown in the diagram above.
- (b) In which units is weight measured?
- (c) State two forces that affect the weight of an object.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
42. (a) Give any two health concerns in our community.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (b) Give any two causes of food insecurity in our community.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
43. (a) Give the meaning of seed dispersal.
- \_\_\_\_\_
- (b) Apart from animals, give one other agent of seed dispersal.
- \_\_\_\_\_
- (c) State two importance of seed dispersal.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
44. (a) Apart from **fish**, write down any two other classes of cold blooded vertebrates.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

33. Give one possible cause of cuts among young children.

34. How do pests affect crop production in the community?

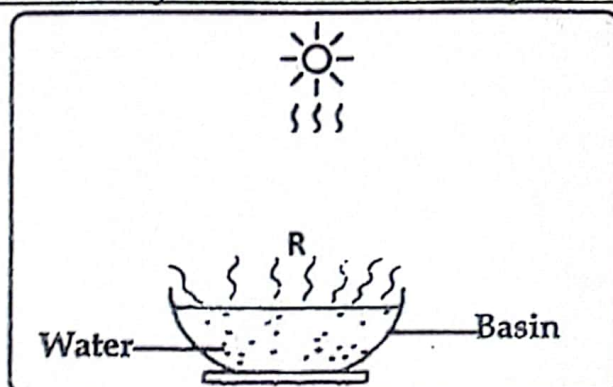
35. Give any one way of conserving wood fuel at home.

36. State any one way of improving the efficiency of wedges as simple machines.

37. How is the process of sweating useful to human beings?

38. Give any one way how railway engineers prevent risks of breaking of rails during construction.

The diagram below shows a basin filled with water exposed to sunny weather. Study and use it to answer questions 39 and 40.



39. Name the type of change taking place at point R in the diagram above.

40. State what will happen to the volume of water in a basin after 6 hours.



(b) Why do lung fish commonly hibernate in dry season?

(c) How is a streamlined body useful to fish?

45. The table below shows a group of vitamins and their deficiency diseases. Study it carefully to complete it correctly.

Food value	Deficiency disease
Vitamin C	(i) _____
Vitamin A	(ii) _____
(iii) _____	Beriberi
Vitamin B <sub>3</sub>	(iv) _____

46. (a) Write down any two breeds of goats kept mainly for milk production.

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

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

(b) How can a farmer increase milk production among goats?

(c) Why should one first wash the hands before milking?

47. (a) State the cause of these accidents;

(i) scalds.

(ii) burns.

(b) How can risks of scalds be reduced among young children?

(c) What First Aid measure can be undertaken in case one has got a scald?

48. (a) What is pollination?

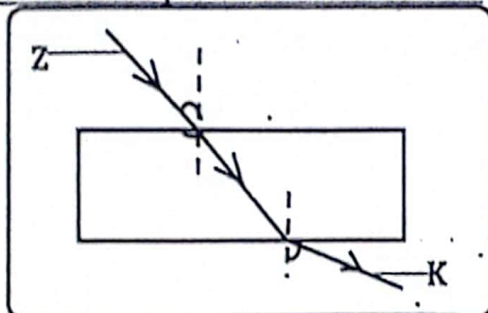
(b) Give one reason why pawpaw plants are unable to undergo self pollination.

(c) Give any two disadvantages of cross pollination.

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

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

49. The diagram below shows effect of light on certain material. Study and use it to answer the questions that follow.



(a) State the property of light demonstrated in the diagram above.

(b) Identify the rays of light marked letter K and Z from the diagram above.

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

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

(c) Mention any one material that makes the light ray to appear as shown above.

50. The following steps are involved in cleaning clothes;

**soaking, sorting, rinsing, washing, wringing and drying**

(a) Arrange the above steps in their correct sequence.

(b) Mention two items needed when washing clothes.

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

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



(c) Give any one disadvantage of washing clothes using from lakes.

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51 (a) Which type of soil used for making ceramics?

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(b) State at least two characteristics that make the above type of soil suitable for making ceramics.

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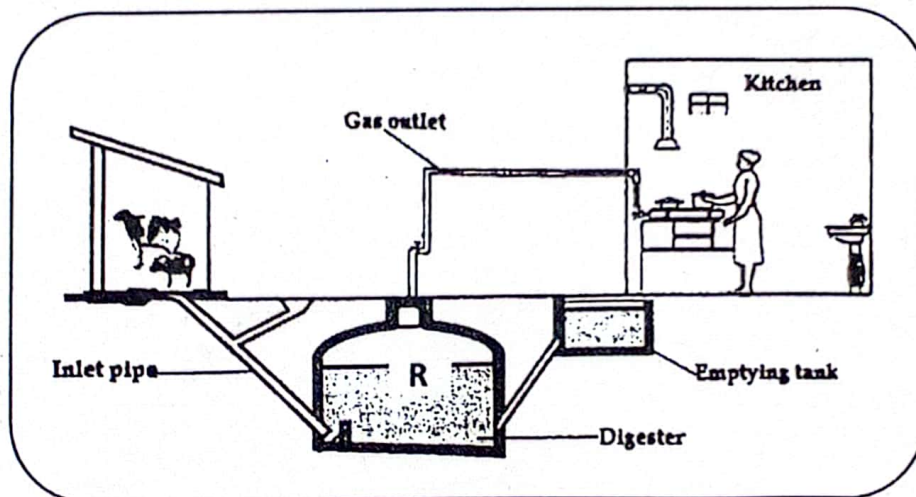


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(c) Give one way of making the type of soil named in (a) above good for growing crops.

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52. The diagram below shows a biogas digester. Study and use it to answer questions that follow.



(a) Name the process that take places at part marked R.

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(b) In three sentences, describe how biogas is produced at home? (03 marks)

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53. (a) Mention two bones that form a joint at the shoulders in our bodies.

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

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

(b) How do red bone marrow found in flat bones support the circulatory system?

\_\_\_\_\_

(c) State the use of synovial membrane in joints.

\_\_\_\_\_

54. (a) Write any one antisocial behaviour which can lead to teenage pregnancy.

\_\_\_\_\_

(b) Give two dangers of teenage pregnancies.

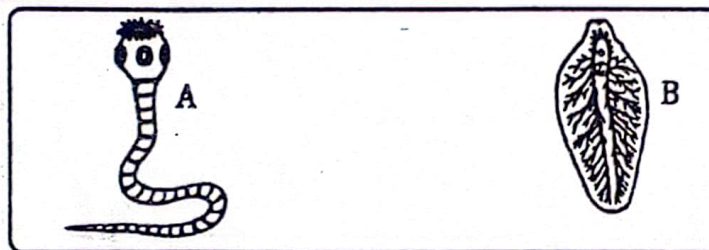
(i) \_\_\_\_\_

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

(c) How can the family reduce cases of teenage pregnancies?

\_\_\_\_\_

55. The diagram below shows parasites that affect cattle. Study and use it to answer the questions that follow.



(a) Identify the cattle parasites represented by letters A and B above.

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

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

(b) State one way in which the farmer can control the above parasites among cattle.

\_\_\_\_\_

(c) Apart from controlling parasites, give one other practice that cattle farmers can do to ensure good health of cattle.

\_\_\_\_\_



#### Engage in active learning

Do not just read notes or text books, start to summarise information in your own words, teach concepts to others or create a list for key terms and definitions.