



THE **PRIME EXAMINATIONS 2024**  
**P.7 MAGIC SET III**  
**INTEGRATED SCIENCE**

Time allowed 2 hours 15 minutes

INDEX NO:

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Candidate's Name: .....

Candidate's Signature: .....

District ID No.: .....



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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 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

**APPROVED:**

*[Signature]*  
Consultant

Integrated Science Department (PEC)

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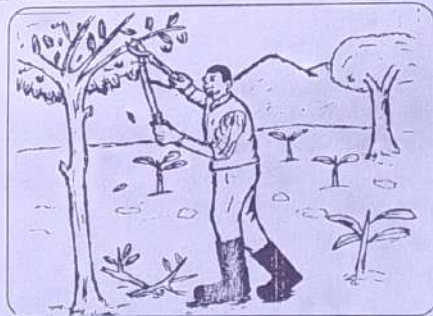
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Section A. (40 Marks)

1. Name the component of air that supports both burning and rusting of non-galvanized steel.  
\_\_\_\_\_
2. Apart from hydroelectricity, give one other energy resource obtained from water.  
\_\_\_\_\_
3. Give one reason why black fly lay eggs in fast flowing water.  
\_\_\_\_\_
4. Give any one way how physical changes are important in the environment.  
\_\_\_\_\_
5. Why do children with tapeworm infestation experience stunted growth?  
\_\_\_\_\_

The diagram below shows a crop growing practice. Study and use it to answer questions 6 and 7.



6. Name the crop growing practice shown in the diagram above?  
\_\_\_\_\_
7. How does the above crop growing practice help to control pests?  
\_\_\_\_\_
8. Why should drugs be kept in air tight containers?  
\_\_\_\_\_



9. How does yeast speed up fermentation of alcohol?

10. State the use of soap when cleaning clothes.

11. Which vector spreads yellow fever to people?

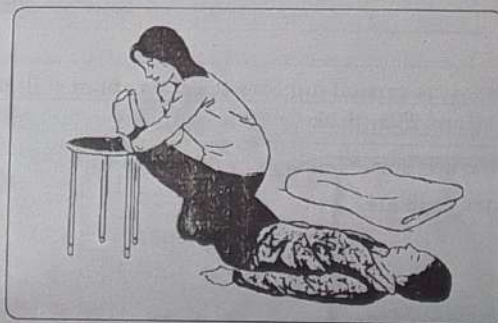
12. Give any one factor that stimulates the production of saliva in the mouth.

13. State one way how simple machines make work easier.

14. Give one reason for pouring clean cold water on scalded parts of the body.

15. Give one way how drought affects food production in a community.

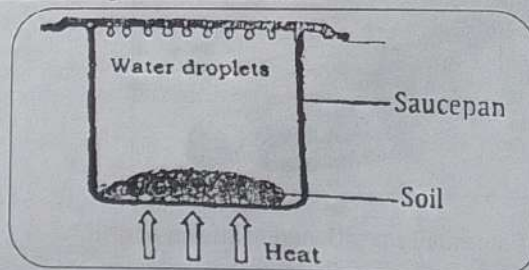
The diagram below shows a casualty being given first aid. Study and use it to answer questions 16 and 17.



16. Why are the legs of a casualty positioned as shown above?

17. Give one reason why a first aider is not allowed to give any drink to a casualty with the condition in the diagram above.
18. Apart from washing hands and measuring one litre of clean boiled water in a clean container, give the next step of making ORS locally.
19. Name the childhood immunisable disease that affects the liver prevented at 6, 10 and 14 weeks using pentavalent vaccine.
20. Give any one advantage of planting crops in rows.
21. Give one role of a community in promoting primary health care.
22. Which type of skeleton is possessed by ticks.
23. State the importance of proteins in the body of babies.
24. How is the reproduction of coniferous plants similar to that of maize?

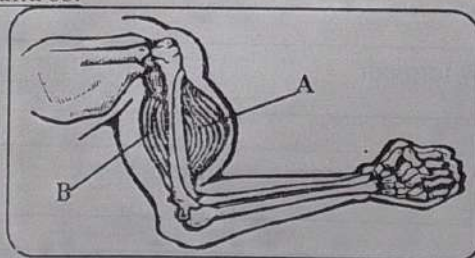
The experiment below was carried out by a P.5 class about soil. Study and use it to answer questions 25 and 26.





25. What does the experiment above prove about soil?
26. Give one reason why clay soil is poorly aerated.
27. State one danger faced by someone addicted to alcohol.
28. Why are teenagers advised not to have premarital sex?
29. Write down any one method used when collecting information during health surveys.
30. Identify one requirement needed to start a woodlot.
31. Give one way how a smoker is useful when harvesting honey.
32. State one reason why some farmers prefer rearing rabbits to goats.
33. Give any one disadvantage of silting.

The diagram below shows a human arm. Study and use it to answer questions 34 and 35.



34. Which term is used to mean muscles marked A and B?

35. What will happen to muscles marked B when the arm is straightened?

36. How do trees help to control soil erosion in the school compound?

37. Give one advantage of zero grazing as a system of feeding cattle.

38. State any one way of preventing rat fleas from breeding in a living house.

39. Give one way how plants with weak stems climb others in the environment.

40. How useful is the hair and wax found in the outer ear?

Section B (60 Marks)

41. (a) Give any two reasons for preserving food at home.

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

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

(b) How do the following methods help in food preservation;

(i) smoking

(ii) refrigeration

(a) What do we call the darkest part of a shadow?

(b) How is a shadow formed?

(c) State any two ways how shadows are useful to man.

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

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

(a) Apart from yeast, mention two other examples of useful fungi.

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

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

(b) Give two dangers of harmful fungi to human health.

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

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

The table below shows different body organs and their main function. Complete it correctly.

Body organ	Function
a) Heart	_____
b) _____	carries out gaseous exchange in the body.
c) Stomach	_____
d) _____	stores information and reasons.

(a) Which energy resource helps in the production of solar energy?

(b) Why are solar panels;

(i) put on the roof of houses

(ii) made with a black surface

(c) State the use of solar dryers to people.

(a) Apart from branding, give two other practices done by farmers to identify their animals from others.

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

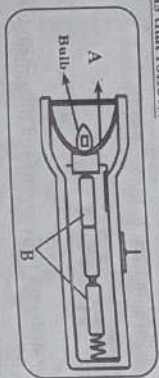
(ii) \_\_\_\_\_

(b) How does branding of animals affect the quality of their hides?

(c) Give one reason for putting animals with foot and mouth disease in quarantine.



The diagram below shows a flash torch. Study and use it to answer questions that follow.



(a) Name the parts marked A and B from the diagram above;

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

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

(b) State what will happen to the bulb when the switch is closed.

(c) Give the reason to support your answer in (b) above.

(a) State any **two** causes of nose bleeding.

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

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

(b) Which first aid is given to a casualty with nose bleeding?

(c) Why do we encourage a person with nose bleeding to breathe through the mouth?

(a) Name the instrument used by health workers to examine the temperature of a patient.

(b) Convert  $50^{\circ}\text{C}$  to  $^{\circ}\text{Fahrenheit}$ .

(03 marks)



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50. (a) State any one chemical used for treating water.

(b) Give any two dangers of treating water for drinking using chemicals.

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

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

(b) Mention any one method involved in treating water using chemicals.

51. (a) Give the meaning of the following terms.

(i) Soil exhaustion

(ii) Soil conservation

(b) Give any one human activity that leads to soil exhaustion.

(c) State any one way of controlling soil exhaustion.

52. Joshua woke up late for school on Monday. He decided to run so that he catch up with time. Accidentally he fell down on his way to school and a bone from his legs got a crack.

(a) Write the injury he got on his leg.

(b) How can a stretcher be of importance when helping Joshua?

(c) Give two ways of controlling injuries in our homes.

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

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

a) Mention any two examples of non-magnetic materials.

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

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

b) Give any two ways of demagnetizing magnets.

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

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

a) Name the type of movable joint found in the following parts;

i) neck

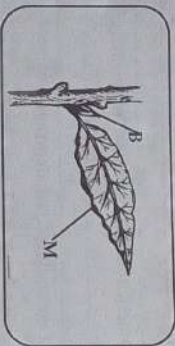
ii) knee

b) Give two ways of keeping the skeletal system in a good healthy condition.

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

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

The diagram below shows a part of the flowering plant. Study and use it to answer questions that follow.



a) Name the part marked B from the diagram above.

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

b) State any two processes that take place at part M.

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

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

c) Give one importance of part M to a plant.

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### Answering techniques

Candidates should master answering in brief and precise way to be more understandable and clear.