



THE PRIME EXAMINATIONS 2024

P.7 MAGIC SET I

INTEGRATED SCIENCE

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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.

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:

Consultant

Integrated Science Department (PEC)

PUBLISHERS OF: -

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Section A. (40 Marks)

1. Name the method of planting crops where seeds are scattered randomly in a garden.

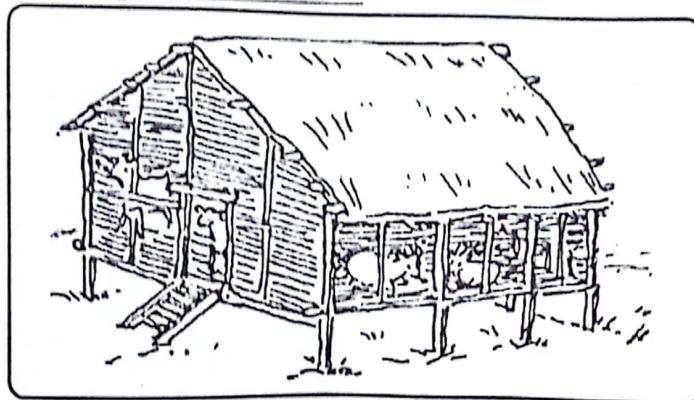
2. Apart from removing stains on clothes, give one other use of jik in our daily life.

3. State one way of disposing non-recyclable materials like broken glasses.

4. Write down one indicator of an exhausted dry cell.

5. How does galvanizing of iron sheets help to prevent rusting?

The diagram below shows a system of keeping goats. Study and use it to answer questions 6 and 7.



6. Give the importance of constructing the floor as shown in the diagram above.

7. State one importance of proper housing for goats.

8. Name the disorder of kidneys that causes deposits of acid salt to stick together in urine.

9. State the importance of including proteins in growers' mash.

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10. Give any one way of preventing diseases spread through the 4Fs germ path.

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11. State the importance of the villi found in the ileum of the alimentary canal of human beings.

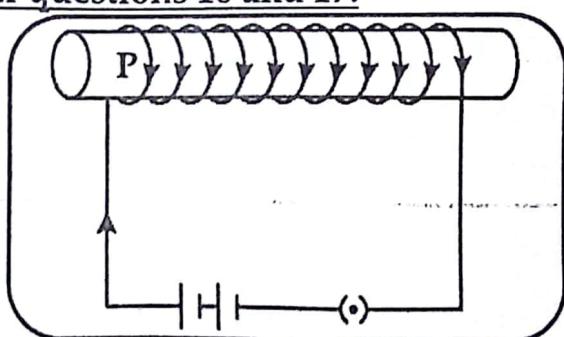
12. Give any one effect of alcoholism to a community.

13. How does heat gain on rocks help in soil formation?

14. Name the blood vessels that connect veins to arteries.

15. Write down one sign of little blood in the body.

The diagram below shows a method of making magnets. Study and use it to answer questions 16 and 17.



16. Identify the method of making magnets shown above.

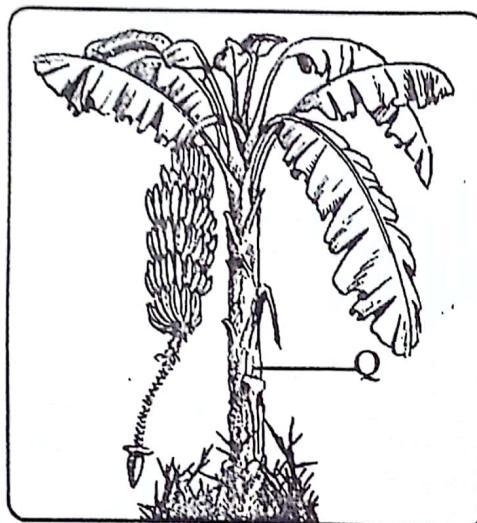
17. Name pole marked P from the diagram above.

18. Which name is given to medicines administered to cattle to kill internal parasites?

19. Give any one example of hereditary diseases in human beings.

20. State a reason why the solar panel is always painted black.
21. Apart from all community participation, give any one other principle of PHC.
22. Give any one reason why males fear to use vasectomy as a method of family planning.
23. Mention any one plant process that requires oxygen to take place.
24. Give one reason why prop roots develop at the flowering stage on monocots.

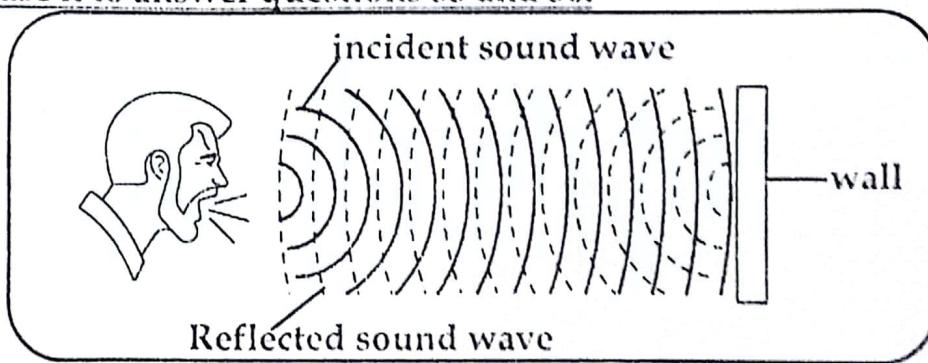
The diagram below shows plants in the garden. Study and use it to answer questions 25 and 26.



25. How is the plant in the diagram above propagated?
26. State the plant training practice that can be carried out on plant Q.
27. How does prolonged breastfeeding help to control population growth?

28. Give one reason why immunization is free of charge in Uganda.
29. Name any one item used when cleaning our latrines/toilets.
30. Give any one advantage of carrying out agroforestry.
31. How does setting up bee hives in areas without flowers lead to swarming?
32. Which property of light enables a periscope to work?
33. Apart from having mammary glands, give one other way of classifying mammals.
34. Name the body system to which the ureter and kidneys belong.

The diagram below shows a person making sound in front of a wall. Study and use it to answer questions 35 and 36.



35. Why did sound waves get reflected as shown above?
36. State any one importance of the reflected sound above to nocturnal mammals like bats.

37. How are ventilators on a living house similar to chimneys on a kitchen in terms of function?

38. Write down one way how people can control cockroaches in their homes.

39. Apart from providing carbohydrates, give one importance of growing cereal crops.

40. State the importance of transpiration in the environment.

Section B (60 Marks)

41. (a) Mention any two materials used in production of biogas.

(i) _____

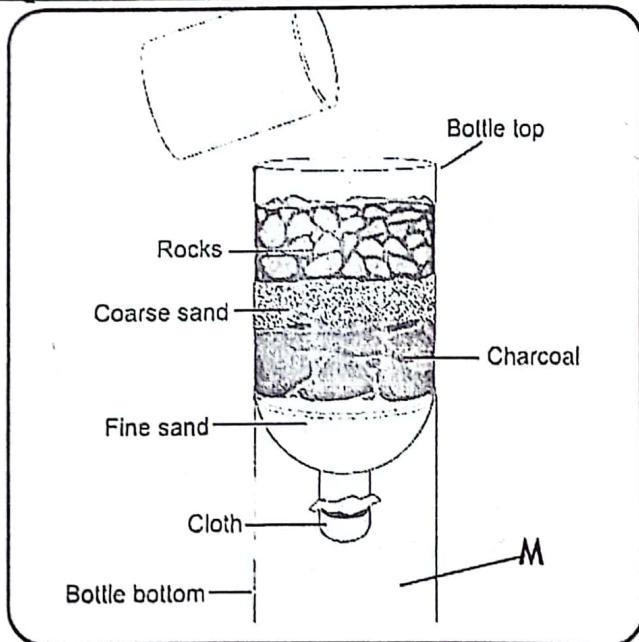
(ii) _____

(b) Give any two advantages of using biogas over firewood.

(i) _____

(ii) _____

42. The diagram below shows a method of cleaning water. Study and use it to answer questions that follow.



(a) Name the method of cleaning water shown in the diagram above.

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- (b) State any two uses of water obtained at M on the diagram above.
- (i) _____
 (ii) _____
- (c) Why is water collected at M not good for drinking?

- 43 (a) What is the difference between near drowning and drowning?

- (b) Write down any two places where near drowning can occur.
 (i) _____
 (ii) _____
- (c) State the importance of mouth to mouth breathing as a First Aid for near drowning.

44. (a) Name the respiratory organs protected by the rib cage.
- (b) What happens to the diaphragm during the process of;
 (i) inspiration.

- (ii) expiration.

- (c) Which component of air is a raw material for respiration?

45. The table below shows crops Mr. Gita planted season after season on his farm. Study and use it to answer questions that follow.
- | Season | Types of crop grown | Yields harvested per season |
|------------|---------------------|-----------------------------|
| 1st | Maize | 100 sacs |
| 2nd season | Millet | 42 sacs |
| 3rd season | Upland rice | 15 sacs |
| 4th season | Sorghum | 2 sacs |
- (a) Name the group of flowering plants which Mr. Gita grows.

- (b) State any two possible causes of reduction in Mr. Gita's harvests in every season.
 (i) _____
 (ii) _____
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(c) As a P.7 child, how can you advise Mr. Gita in order to improve on his harvests next season.

46. (a) Mention one food value that makes peoples' body healthy.

(b) Write down any two food stuffs rich in the food value named in (a) above.

(i) _____

(ii) _____

(c) State one reason why people are advised to eat food rich in fibres.

47. (a) Which type of castration is carried out using a sharp blade?

(b) How can the type of castration named in (a) above cause anaemia to animals?

(c) Apart from castration, name two other practices that can harm cattle on a farm.

(i) _____

(ii) _____

48. (a) Give one reason why monotremes are regarded to be the most primitive group of mammals.

(b) Apart from duck billed platypus, mention one other example of a monotreme.

(c) Give any two characteristics which enable cetaceans to live in water.

(i) _____

(ii) _____

49. (a) What is meant by the term reflection of light?

(b) Which type of reflection occurs on smooth shiny surfaces?

(c) Give any two applications of light in our daily life.

(i) _____

(ii) _____

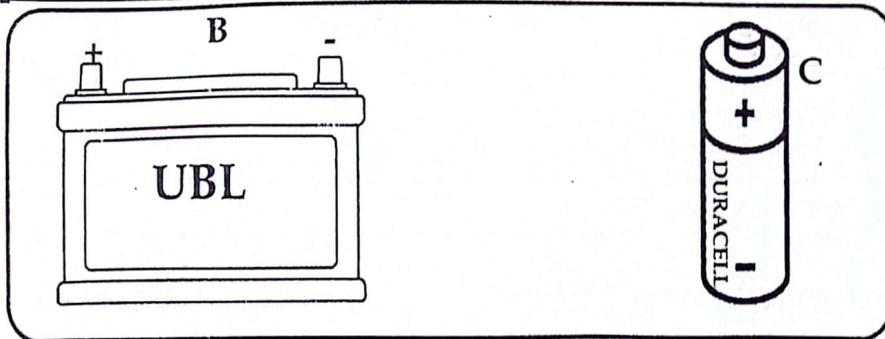
50. (a) Name the type of soil with;
(i) highest water capillarity _____
(ii) highest water drainage _____
(b) In which one way can modern farmers improve nitrogen content in the soil without manuring?

(c) How do earthworms help in soil aeration?

51. (a) Give any two characteristics of plants with dicotyledonous seeds.
(i) _____
(ii) _____
(b) Name the part of a flower that holds the anthers in position for pollination.

(b) Give one difference between a seed and a fruit.

52. The diagrams below show electric cells. Study and use it to answer questions that follow.



- (a) Name the type of electric cell marked B and C in the diagram above.
(i) B: _____ (ii) C: _____
(b) Write down any one reason why people prefer using electric cell C to electric cell B.

(c) State the form of energy produced by the above electric cells when the circuit is complete.

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53. (a) Why is aluminium used in making saucepans?
- (b) Apart from aluminium, mention any two materials that can conduct heat.
- (i) _____
(ii) _____
- (c) State any one use of heat conductor.
54. (a) Mention any two systems of feeding cattle under rotational grazing.
- (i) _____
(ii) _____
- (b) State any two advantages of feeding cattle under rotation grazing.
- (i) _____
(ii) _____
55. (a) What is meant by the term mass?
- _____
- (b) If a stone has a volume of 20cc and density of 4g/cc. Calculate its mass.
(03 marks)



REVISION TIP

Have a revision timetable.

Revision time tables will help you to focus on the topics you need to revise. Aim at doing a few hours of revision each day and mix up your subjects so that you do not get bored.