



THE PRIME EXAMINATIONS 2024

P.7 END OF TERM I INTEGRATED SCIENCE

Time allocated 2 hours 15 minutes



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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- This paper has **two** sections: A and B. Section A has 40 questions (40 Marks) and Section B has 15 questions. (60 Marks)
- Answer **ALL** questions. All answers to both sections A and B must be written in the spaces provided.
- All answers **must** be written using a blue or black ball point pen or ink. Any work written in pencil will **not** be marked.
- Unnecessary changes in your work and handwriting that cannot be read easily may lead to **loss of marks**.
- Do not fill anything in the table indicated
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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 (ISC)

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Turn Over

SECTION A (40 MARKS)

1. Name the part of the female reproductive system where implantation occurs.

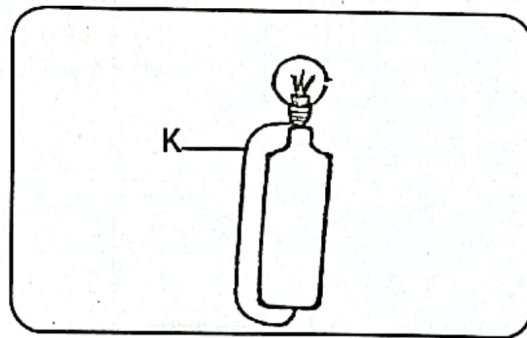
2. Which device is used for increasing or decreasing voltage in an electric circuit?

3. Give the reason why the stamen and petals wither and fall off the flower after fertilization.

4. How is calcium important in proper functioning of bones?

5. State the use of a wind vane at a weather station.

The diagram below shows a simple electric circuit. Study it carefully and use it to answer questions 6 and 7.



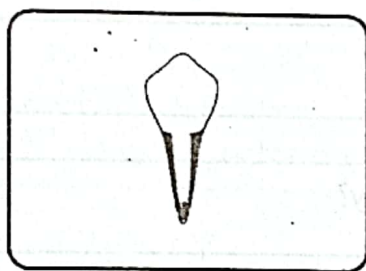
6. Use an arrow to show the flow of electrons in the above circuit.
7. State the role of part K to the simple electric circuit shown above.

8. Name the deficiency disease caused due to lack of Vitamin D in the diet of humans.

9. Give the importance of ecdysis to insects.

10. State one property of magnets.
11. Why is water regarded as a universal solvent?
12. What name is given to the *tissue that joins a bone to a bone at a joint*?
13. Give the role of warmth during germination.
14. Name the immunizable disease of the muscular skeletal system which is spread through drinking contaminated water.

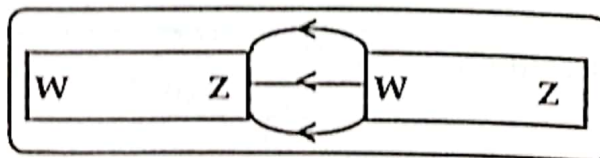
The diagram below is of a tooth. Study and use it to answer questions 15 and 16 correctly.



15. Identify the type of tooth shown in the diagram above.
16. Give a reason why the above tooth is sharp and pointed.
17. Name the part of a torch that helps to diverge light rays?
18. State the first aid for fractures.
19. Which method is used when obtaining petrol from petroleum at a refinery?

20. State one danger of sharing a living house with cattle.
21. Give any one example of a natural magnet.
22. Which part does a bee use for protection?
23. State one way in which plants can be used as energy resources.
24. Name the form of current electricity that is generated using fast flowing water.
25. How are the lungs in sea mammals similar to gills in fish?
26. Give any one use of biogas at home.
27. Why can't pure water conduct electricity?
28. Give any one health habit that can promote proper functioning of the muscular-skeletal system.
29. In which part of the human body does digestion of proteins start?

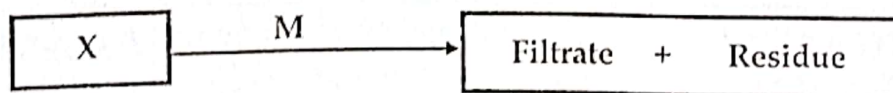
Study the diagram below carefully and use it to answer questions 30 and 31.



30. Identify the pole marked Z.

31. How are magnets useful to doctors in doing their daily activities?
32. Give any one activity that can be done by a P.7 pupil to promote personal hygiene.
33. State any one condition under which a torch may fail to produce light.
34. Why is it important for a first aider to first check the heartbeat of the casualty before giving first aid?
35. Give one way in which risks of constipation can be prevented in people.
36. State the role of synovial fluid at a joint.
37. How is the process of osmosis useful to plants?
38. Why do farmers rear merino sheep?

Study the illustration below carefully and use it to answer questions 39 and 40.



39. Give one example of a mixture represented by X.
40. State any one application of process M in our daily life.

SECTION B (60 MARKS)

41. (a) Give the meaning of the term *conductors of electricity*.

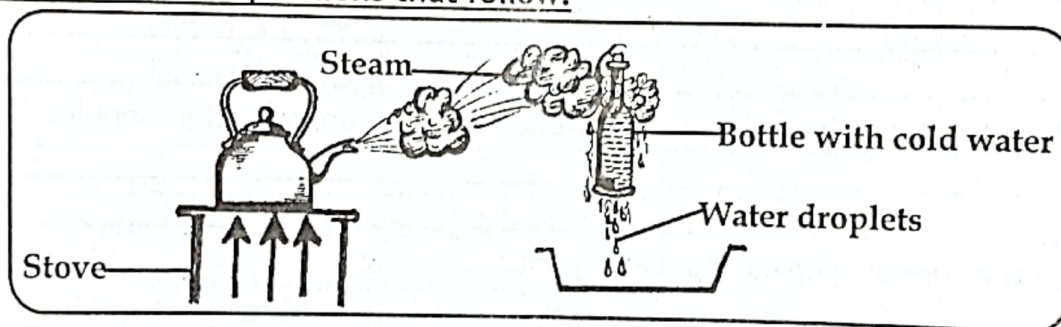
(b) Mention any two examples of conductors of electricity.

(i) _____

(ii) _____

(c) Why are electricity engineers advised to wear rubber gloves when installing electricity?

42. The experiment below was carried out by primary three pupils. Study and use it to answer questions that follow.



(a) What is the above experiment about?

(b) What does the stove represent in the above experiment?

(c) State the use of cold water in a bottle.

(d) Name the physical process that take place in the kettle when the water is boiling.

43. (a) What term is used to mean *the biological process by which organisms shed their outer tissue so as to grow?*

(b) Give any two examples of arthropods that carry out the above process.

(i) _____ (ii) _____

(c) How is the skeleton of slugs similar to that of tapeworms?

44. (a) Give the meaning of the term magnetization.

(b) State any two ways of demagnetizing magnets.

(i) _____

(ii) _____

(c) Write any one device at home that uses magnets to operate.

45. Match the items in A to those in B correctly.

A

B

(i) Drenching

Controls inbreeding

(ii) Pasteurization

Minimizes injuries on a farm

(iii) Castration

Controls end parasites

(iv) Dehorning

Preserves milk

(i) Drenching

(ii) Pasteurization

(iii) Castration

(iv) Dehorning

46. (a) Give the difference between *renewable energy resources* and *non-renewable energy resources*.

(b) Apart from the sun, give two other examples of renewable energy resources.

(i) _____ (ii) _____

(c) State one way in which the sun is useful to man.

47. Esther rubbed a plastic ruler on her hair for three minutes and then brought it close to small pieces of paper.

(a) State what was observed between the pieces of paper and the ruler.

(b) What type of charge was possessed by the;

(i) Small piece of papers

(ii) Plastic ruler

(c) Name the type of electricity experimented above by Esther.

48. (a) *Apart from hepatitis B*, name two other diseases which are immunized against at the age of (6, 10, 14) weeks.

(i) _____ (ii) _____

(b) How are white blood cells important in maintaining good health?

(c) State one role of a parent in promoting immunization.

49. (a) State one cause of malnutrition.

(b) *Apart from honey*, give any two other sources of carbohydrates.

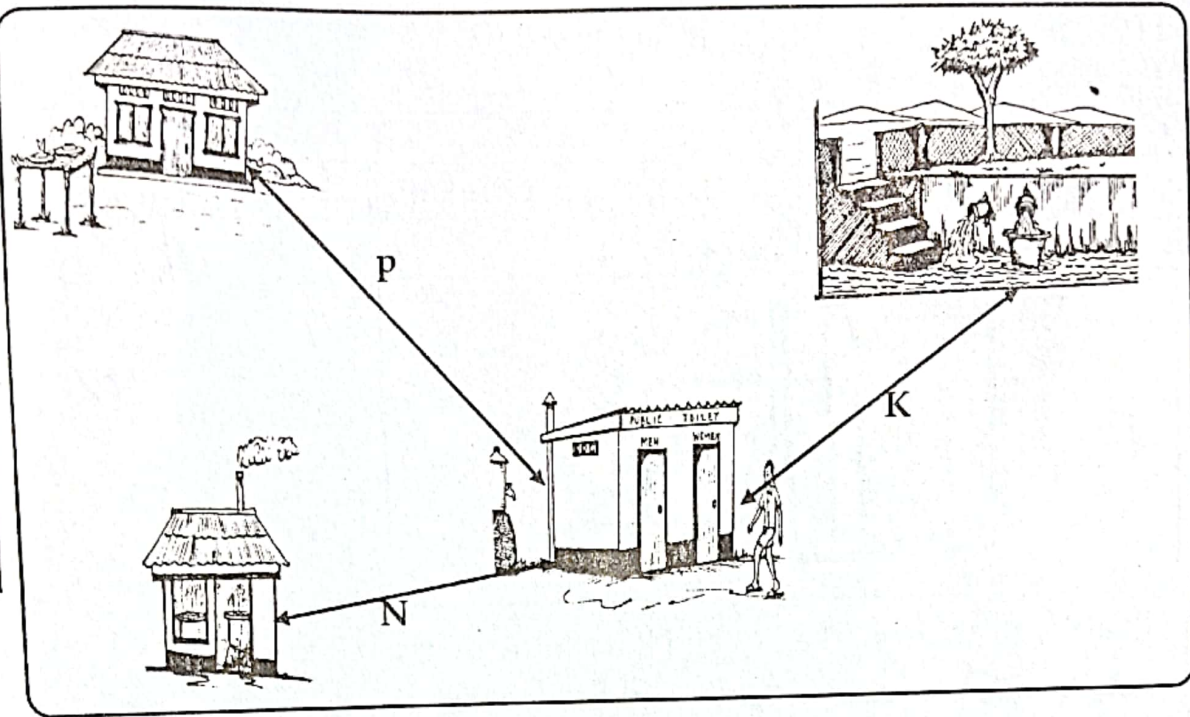
(i) _____

(ii) _____

(c) Why would you advise a brick maker to feed on the above food stuffs?

0. The illustration below shows some of the measures involved in sanitation.

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(a) State the recommended distance marked by the letters K and P as shown above.

(i) K _____ (ii) P _____

(b) Why should a latrine be constructed downhill from the water source?

(c) Mention one disease that is likely to break out if distance N is reduced.

51. Write one body organ protected by each of the following parts of the skeleton.

(i) Rib cage _____

(ii) Backbone _____

(iii) Skull _____

(iv) Pelvis _____

52. (a) Name the type of skeleton found in each of the following organisms;

(i) Human beings _____

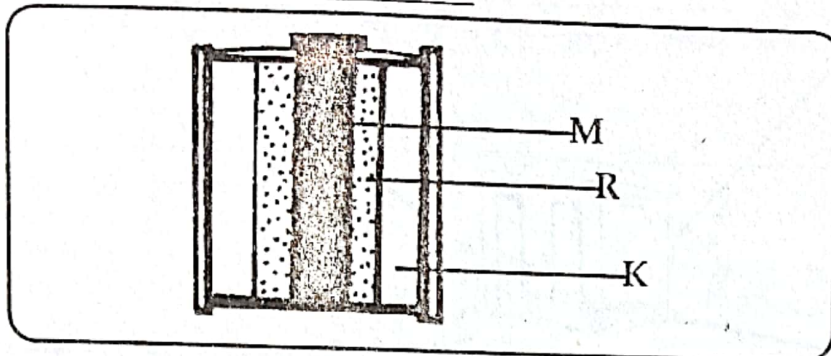
(ii) Mosquito _____

(b) State any one importance of the skeleton in the human body.

WARNING: Not to be reproduced electronically.

(c) How is a stretcher useful in giving first aid?

53. The diagram below shows an electric cell. Study it carefully and use it to answer questions that follow.



(a) Identify the part marked M and R from the diagram above.

(i) M _____ (ii) R _____

(b) Mention any one device that uses dry cells to operate.

(c) State the energy change that occurs in the above device when in use.

54. (a) Apart from writing in notation, mention one other method of storing sound.

(b) Give any one way of reproducing sound stored in notation.

(c) Name any two devices used for storing sound.

(i) _____ (ii) _____

55. (a) Write e.m.f in full as used in electricity.

(b) Calculate the voltage produced by four new dry cells.

03 marks