THE PRIME EXAMINATIONS 2024

P.7 END OF TERM I

INTEGRATED SCIENCE

Time allocated 2 hours 15 minutes

Name:..

Signature:...

School:...

District Name:..

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

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

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:
Consultant
Integrated Science Department (PEC)

PUBLISHERS OF:-
THE PRIME: SCHEMING FRAME WORKS, PUPIL'S WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES, LEARNING GAMES, REVISION BOOKS, PLE ANALYSIS REPORTS AND MANY MORE.

Turn Over

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SECTION A (40 MARKS)

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

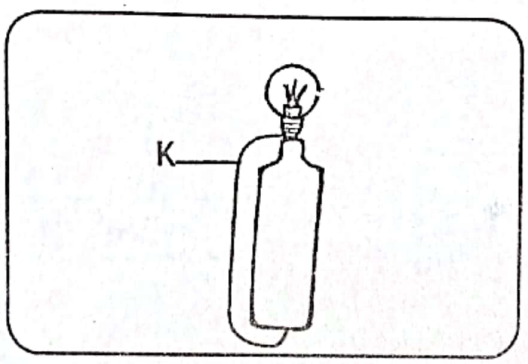
2. Which device is used for increasing or decreasing voltage in an electric circuit?

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.

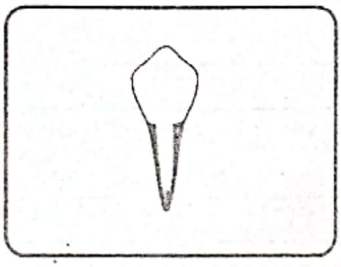
_____

_____

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?

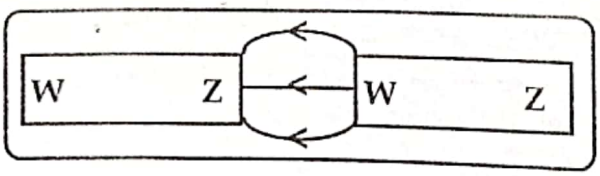
26. Give any one use of biogas at home.

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 <u>one</u> activity that can be done by a P.7 pupil to promote personal hygiene.

_____

_____

33. State any <u>one</u> 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 <u>one</u> 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?

_____

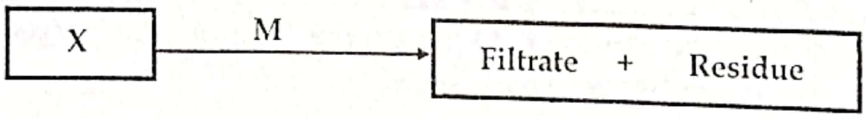
_____

38. Why do farmers rear merino sheep?

_____

_____

<u>Study the illustration below carefully and use it to answer questions 39 and 40.</u>



39. Give <u>one</u> example of a mixture represented by X.

_____

40. State any <u>one</u> 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 <u>two</u> examples of conductors of electricity.

(i)_____

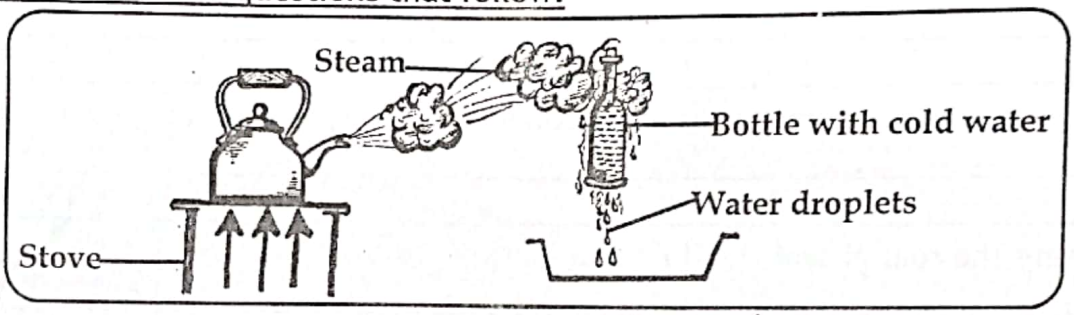
(ii) _____

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

_____

_____

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



(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 <u>two</u> 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 <u>two</u> ways of demagnetizing magnets.

(i) _____

(ii) _____

(c) Write any <u>one</u> device at home that uses magnets to operate.

_____

_____

45. <u>Match the items in A to those in B correctly.</u>

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 <u>two</u> other examples of renewable energy resources.

(i) _____ (ii) _____

(c) State <u>one</u> 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 <u>two</u> 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 <u>one</u> role of a parent in promoting immunization.

_____

_____

49. (a) State <u>one</u> cause of malnutrition.

_____

_____

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

(i) _____

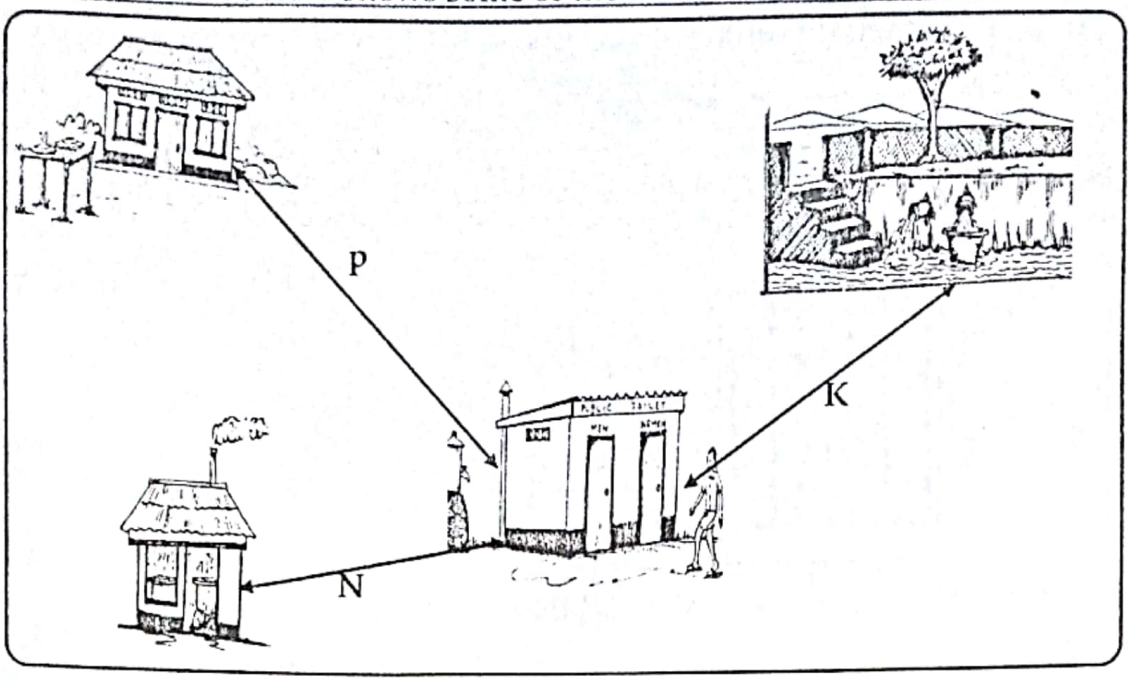
(ii)_____

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

_____

_____

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



(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.

_____

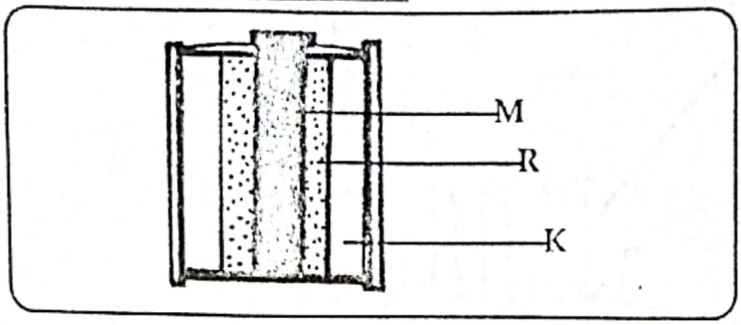
_____

(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