

EDUCATION SOURCE EXAMINATION 2025

P.7 PRE-PLE INDEPENDENCE SET, 2025 INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

School Random No.

District ID:

Do not open this booklet until you are told to do so.

Read the following instructions carefully

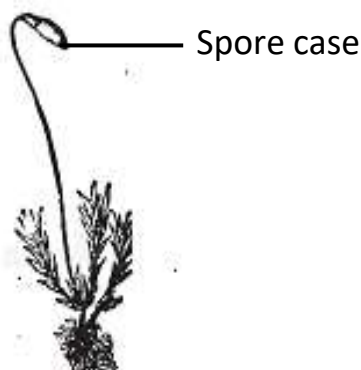
1. This paper consists of two sections: A and B.
2. Section A has 40 questions (40 marks).
3. Section B has 15 questions (60 marks)
4. Attempt all questions. Answers to both sections must be written in spaces provided.
5. All answers must be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will NOT be marked.
6. Crossing out of answers will lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Wrong spellings will lead to loss of marks

FOR EXAMINERS USE ONLY		
QN.NO.	MARK	SIGN
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

SECTION A: (40 MARKS)

1. Name the main source of energy on earth.
.....
2. Which vector spreads trachoma to people?
.....
3. How can noise produced on hinges when opening a gate be reduced?
.....
4. State one-way drought leads to death of animals in the environment.
.....
5. Name the human organ which stores information in the human body.
.....

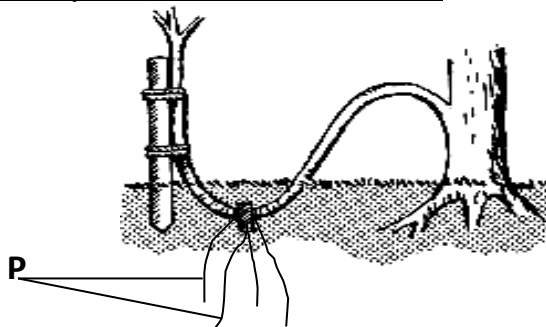
Use the diagram of a non-flowering plant below to answer question 6.



6. Identify the non-flowering plant shown above.
.....
7. How does painting prevent rusting of wheelbarrows?
.....
8. State the type of family which consists of mother, father and their biological children.
.....
9. State any one energy resource obtained from plants.
.....
10. How is freezing useful to people at home?
.....
11. State the danger of removing a foreign body from the ear using a sharp object.
.....

12. Which soil layer contains most living organisms?
.....
13. Give the functional difference between the anther and stigma of a flower.
.....
14. Give any **one** use of iodine to first aiders.
.....
15. How do ball point pens behave when dropped in water?
.....
16. How can scurvy be prevented among children?
.....

The diagram below shows a method of a plant propagation. Use it to answer questions 17 and 18.



17. Name the plant propagation method shown above.
.....
18. Identify the kind of roots marked **P**.
.....
19. Give any **one** way in which bacteria are useful to people.
.....
20. How do **PIASCY** messages contribute to the control of teenage pregnancy among school girls?
.....
21. Name **one** liquid substance which floats on water.
.....
22. Which disease shows bending ears with wounds in rabbits?
.....

23. Name one method of controlling soil erosion on a flat ground in a banana plantation.

24. Give one advantage of breastfeeding to a baby.

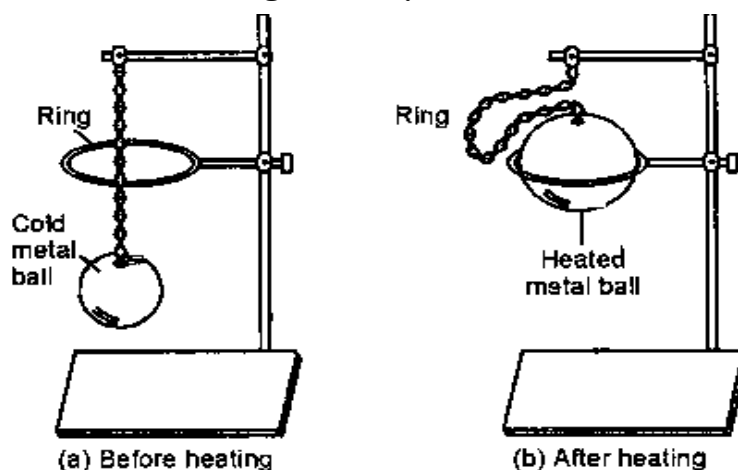
25. In one sentence, define the term "magnet".

26. State any one way in which alcoholism is dangerous to an individual.

27. What is the value of feeding on fruit in the care for the human skin?

28. State one role of conducting a health parade in a school.

The diagram below shows the behaviour of a metallic ball with a ring before and after heating. Study it and use it to answer question 29 and 30.



29. Give one reason why metallic ball failed to go through the ring after heating it.

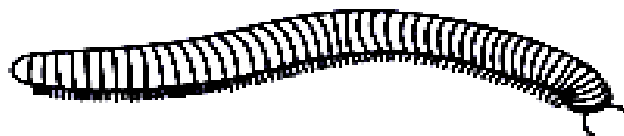
30. What can you do to make the metallic ball to go through again?

31. Give the reason why digestion is an important process in the human body.

32. When paraffin is mixed with water in a container, it settles on top of the water. Why does this happen?

33. Write any **one**-way bee keepers protect beehives from predators like badgers.
.....
34. Give **one** way in which biological changes are important to plants.
.....
35. Which structure of a tadpole plays the same role like the lungs of a frog?
.....
36. Why do domestic animals need shelter?
.....
.....
37. Give a reason why there should be no cover on the hole of a VIP latrine.
.....
38. Outline any **one** way in which the volume of blood can be increased in a person's body.
.....

The diagram below shows an invertebrate. Use it to answer questions 39 and 40.



39. Identify the invertebrate shown above.
.....
40. How does the above invertebrate protect itself?
.....

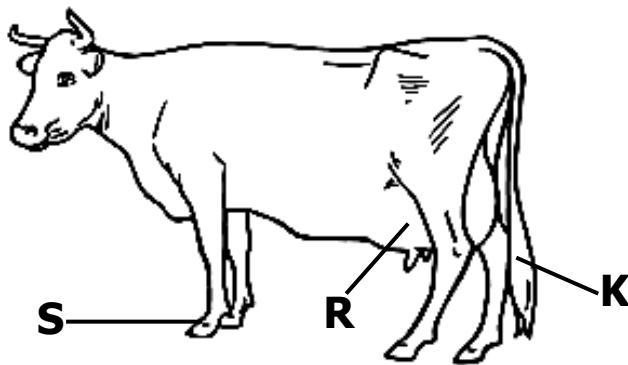
SECTION B: (60 marks)

41. (a) State **one** way in which school children can promote immunization programmes in a community.
.....
- (b) Give **two** ways of caring for a sick person at home.
(i)
(ii)

42. Match the forms of energy in A to their sources in B correctly.

- | <u>A</u> | <u>B</u> |
|----------------------|--------------------|
| a) Solar energy | hot springs |
| b) Thermal energy | fast flowing water |
| c) Hydroelectricity | the sun |
| d) Geothermal energy | burning fuels |
-
- a) Solar energy
- b) Thermal energy
- c) Hydroelectricity
- d) Geothermal energy

43. The diagram below shows external parts of a cow. Study it and answer question 43.



(a) Identify the part marked R and S.

- (i) R:
- (ii) S:

(b) Give the use of part marked K to a cow.

.....

(c) How does the above animal protect itself?

.....

44. (a) Apart from compost manure, name any two other examples of natural fertilizers.

- (i)
- (ii)

(b) Why are the following materials important when making compost manure?

- (i) ash
- (ii) water.....

45. (a) Give any **two** sites of immunization on a baby's body.
- (i)
- (ii)
- (b) Mention any **two** childhood immunizable diseases caused by bacteria.
- (i)
- (ii)
46. (a) Outline any **two** properties of matter.
- (i)
- (ii)
- (b) Give any **two** effects of heat gain on matter.
- (i)
- (ii)
47. (a) To which group of vertebrate animals does a tilapia fish belong?
-
- (b) State the functions of the following parts to a fish.
- (i) Lateral line
- (ii) operculum.....
- (c) How is reproduction in fish similar to that in frogs?
-

48. **Study the weather chart below and use it to answer question 48.**

Day	Morning			Afternoon		
	Rainy	Windy	Sunny	Rainy	Windy	Sunny
Monday	✓					✓
Tuesday	✓					
Wednesday						
Thursday		✓				

- (a) Which kind of clothes should people wear on Monday and Tuesday?
-
- (b) Give a reason for your answer in (a) above.
-

(c) Mention one activity which can be done by crop farmers on Monday afternoon.

(d) Give one reason why farmers should not transplant seedlings on Wednesday afternoon.

49. (a) Give two possible sites for near-drowning of babies at home.

(i)

(ii)

(b) What danger is most likely to happen when a young child tries to remove a friend who has fallen in water?

(c) How is mouth-to-mouth breathing important in giving first aid for near drowning?

50. (a) Name the tissue that joins a bone to a muscle at a joint.

(b) Name the tissue whose actions depend on the will of the brain.

(c) How are muscles helpful in our bodies?

(d) Why is it important to put cold compress on a strained muscle?

51. (a) How does sound travel?

(b) In which state of matter does sound travel fastest?

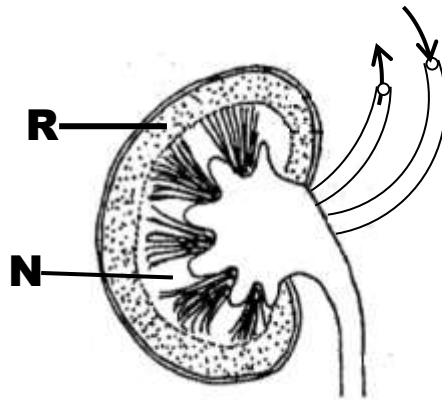
(c) Give any two importance of storing sound to people.

(i)

(ii)

(d) How do soft boards help to reduce echo in cinema halls?

52. The diagram below shows a human kidney. Study it and answer question 52.



- (a) Identify part marked N.

.....

- (b) Give the role of part marked R.

.....

- (c) Outline any one use of the above organ.

.....

- (d) How can you improve on the normal functioning of the above organ?

.....

53. (a) Give any two factors considered when prescribing drugs.

(i)

(ii)

- (b) A patient had his drug packet with a prescription of 2×3. On administering the drug, he was given 4×2 from the packet which had 24 tablets.

- (i) What health problem did the patient face on the first swallowing?

.....

- (ii) State what can be done to save the patient's condition from worsening.

.....

54. (a) Give any two examples of ecto-parasites in cattle.

(i)

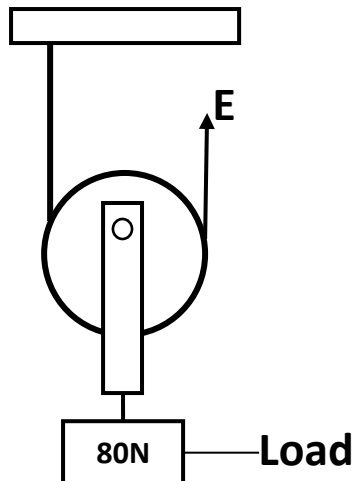
(ii)

(b) State **two** ways in which cattle farmers control ecto-parasites on their farms.

(i)

(ii)

55. The diagram below shows a type of pulley. Use it to answer question 55.



(a) Identify the type of pulley shown above.

.....

(b) How does the above pulley simplify work?

.....

(c) Calculate the effort needed to raise the load shown above. (2 marks)

*****END*****