

EDUCATION SOURCE EXAMINATION BOARD 2025

END OF HOLIDAY SET EXAMINATION, 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		

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SECTION A: (40 MARKS)

1. Which component of air helps in respiration process?

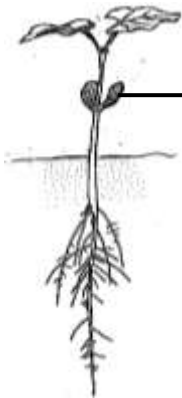
2. Give a reason for washing fruits before eating them.

3. What is the habitat of fish in our environment?

4. What is the role of kidney in the human beings?

5. What is a skeleton?

6. What name is given to the structure marked letter Q?



Q

7. Write any one example of a machine in first class levers.

8. What do we call the process of shedding exoskeleton in arthropods?

9. Name any one resource used during the process of winnowing.

10. Name any one component of blood.

11. What do we call the condition when the body temperature is beyond normal?

12. By what process does a water turn to ice?

13. Name the part of the skeleton shown in the diagram below.



14. What name is given to the turning point of a machine?

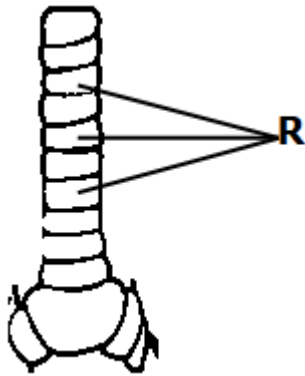
15. Name any one non flowering plant apart from horsetails.

16. Why do people eat food?

17. To which particular group of animals do turtles and terrapin belong?

18. Which instrument is used to measure voltage in an electric circuit?

The diagram below is part of a respiratory system. Use it to answer questions 19 and 20.



19. Name the structures marked with letter R.

20. What is the importance of the air sacs in a human being?

21. How does a bat reproduce?

22. Give any one use of water at home.

23. Why do we wear sweaters on cold days?

24. Give any one basic requirement of a first aider helping a fractured boy.

25. What does the word Photo mean in the term photosynthesis?

26. What do we call the liquid part of blood in a human being?

27. Give any one way of conserving endangered species of animals.

28. In the space provided below, draw a vector that spreads bilharziasis to human beings.



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29. In which units is weight measured?

30. Give any one cause of dehydration to human beings.

31. What do we call the removal of unwanted plants from the garden?

32. Which type of seed dispersal involves birds in the transfer seeds?

33. State any one use of a burdizzo on a farm.

Below is a method of obtaining clean water. Use it to answer questions 34 and 35.



34. Name the method shown above.

35. Why is the water cleaned above not safe for drinking?

36. Which type of electricity is generated from burning fossil fuels?

37. Name the metal which appears in liquid state at room temperature?

38. Name the vaccine which administered by oral method to infant.

39. Which piece of advice can you give to a person who has constipation?

40. Which region of the ear is fluid filled?

SECTION B: (60 Marks)

41. (a) Name the main product obtained from bees.

b) Name the bees which is responsible cleaning the beehive.

c) Why are bees regarded as insects?

d) What structures on worker bees that help them to carry the collected nectar?

42. (a) Why is charcoal burning considered a chemical change?

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b) Mention any two examples of wood fuel.

i) _____

ii) _____

c) Which form of energy is stored in charcoal?

Below is a diagram of one the feet of birds.



43. a) Name the group of birds with such a foot.

b) Give one example of flightless birds.

c) Which type of reproduction does birds undergo?

d) Give any one adaptations of birds to flight.

44. Below are methods of harvesting crops.

- | | |
|---------------------------|---------|
| a. cutting the stem | cassava |
| b. uprooting | rice |
| c. hand picking | banana |
| d. cutting using a sickle | mangoes |

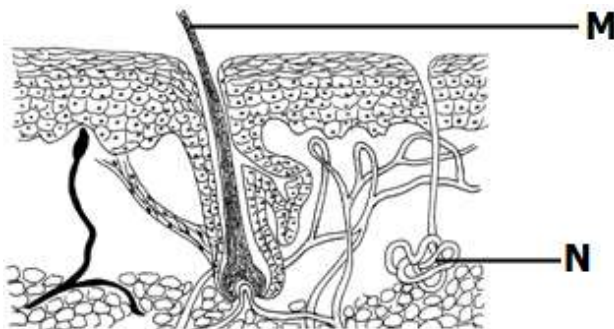
a. cutting the stem

b. uprooting

c. hand picking

d. cutting using a sickle

45. Below is a diagram of one of the body organs.



a) Give any one function of the above organ.

b) Name parts marked with letters.

i) M _____

ii) N _____

c) Name any one disease that affects the above organ.

46. (a) Mention any two examples of leather products.

i) _____ (ii) _____

b) Give any one method of preserving hides and skins.

c) Name any one animal which is a source of hide.

47. Give away the following mixtures are separated.

a) sand and iron filings _____

b) sugar and water _____

c) beans and stones _____

d) juice and its seeds _____

48. Study the diagram below and answer the questions that follow.



a. Name the feeding relationship shown above.

b. Which organisms can be represented by letter Q.

c. What does the arrow represent in the above relationship?

d. What happens to grasshoppers if rats are removed from the feeding relationship?

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49. Below is a list of words, use them to answer the questions that follow.

iron, steel, cobalt and wood

a. Which of the above materials is an odd man out?

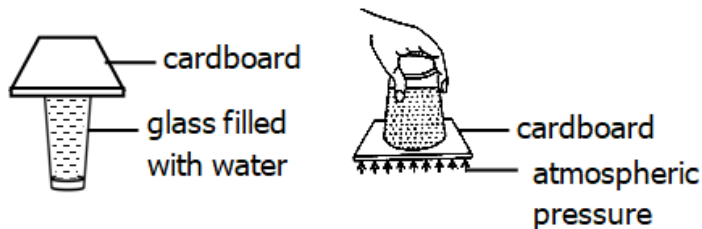
b. Give a reason to support your answer.

c. Give any **two** methods of making magnets.

i) _____

ii) _____

50. The diagram below shows one of the properties of air.



a) Which property of air is demonstrated above?

b) Which component of air is;

i. released during photosynthesis _____

ii. released during respiration _____

iii. used to make fertilizers _____

51. (a) Which type of cloud brings rain?

b) Name the physical process by which nimbus clouds are formed.

c) Which element of weather is characterized by;

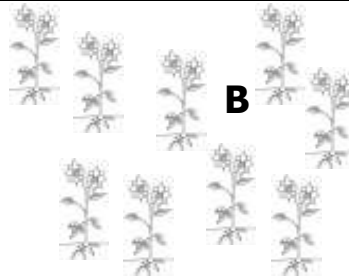
i. too much heat _____

ii. water droplets from the sky _____

52. a) Below are the methods of planting crops. Name the method.



A



B

i) **A** _____ (ii) **B** _____

b) Name the crop grown by method;

i) **A** _____ (ii) **B** _____

53. (a) Define the term "friction".

b) Mention any one example of lubricants used in machines.

c) Give any two importance of friction to people.

i) _____

ii) _____

54. (a) Mention any two examples of aquatic animals.

i) _____ (ii) _____

b) What do we call the erosion of soil and other matter into a water body?

c) Give any one importance of swamps.

55. Study the sentences below and arrange them properly to show how an electric bell works.

a) As the armature is pulled, current stops flowing and the whole cycle is repeated.

b) The soft iron core becomes magnetized.

c) When the switch is closed current flows.

d) The soft iron armature is attracted and hammer hits the gong.

Correct order

a) _____

b) _____

c) _____

d) _____

-END-