

# EDUCATION SOURCE EXAMINATION BOARD 2024

## PRE-PLE EXAMINATION 2024 SET I

### P.7 INTEGRATED SCIENCE

***Time allowed: 2 Hours 15 Minutes***

TARGET MARK

Index No.

RANDOM NO.						PERSONAL NO.		

**CANDIDATE'S NAME:** .....

**CANDIDATE'S SIGNATURE:**.....

#### **SECTION A: (40marks)**

1. Besides claws, name any **one** other weapon used by animals for defence.

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2. State any **one** way a slug is similar to a grass hopper.

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3. Why is it necessary to groom finger nails?

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4. What first aid can you give to someone with a broken humerus?

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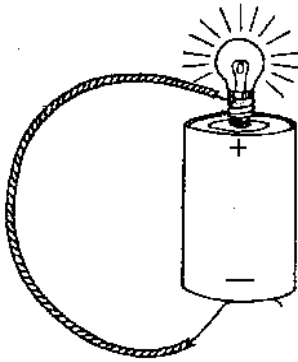
5. Apart from keeping water in the soil, in which other way is mulching important to a farmer?

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6. Common salt gives flavor to food, give one other use of salt in the body.

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7. Using an arrow indicate the direction of flow of electricity in the diagram.



8. Why does smoke from a burning heap of grass move upwards?

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9. State **one** method you would use to control insect pests.

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10. Give **one** breed of rabbits.

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11. Why is water not good for putting out petrol fire?

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12. Why is a wheelbarrow classified as a second class lever?

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13. Give **one** useful piece of information that should be considered before taking any drug.

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14. Name any **one** raw material needed by green plants to make food.

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15. What is dairy farming?

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16. Identify **one** root crop which is propagated by planting seeds.

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17. Why does a potted plant grow towards the window?

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18. Give **one** way of preventing constipation in children.

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19. State **one** natural disaster common in mountainous areas.

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20. Why are electric wires left sagging loosely between poles during construction?

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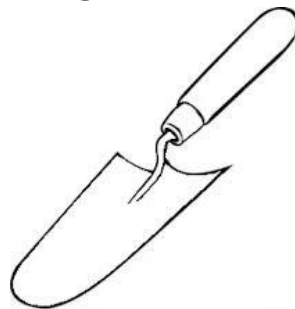
21. Why do maize plants develop prop roots at maturity?

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22. How is humus formed?

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23. The diagram below shows a common garden tool. What is the use of this tool to a farmer?



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24. How does draining stagnant water control the spread of malaria?

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25. Why does a car tyre wear out quickly from a tarmac road than on a murram road?

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26. State the role of the eye as a sense organ in the body.

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27. How is sisal important as a resource?

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28. How do coniferous plants reproduce?

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29. Of what importance are ventilators on a house?

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30. Why can't mushrooms make their own food?

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31. State any **one** condition for rusting to take place.

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32. Give any **one** sustainable way of using resources in the environment.

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33. Name any **one** crop which is first grown as seedlings in a nursery bed.

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34. Give any **one** common sign of a common cold.

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35. Name the only flying mammal in the environment.

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36. Where does fertilization take place in human beings?

\_\_\_\_\_

37. How important is an embryo in a viable seed?

\_\_\_\_\_

38. State any **one** habit that keeps your body clean.

\_\_\_\_\_

39. Write any **one** material that dissolves in water.

\_\_\_\_\_

40. Name the first stage in a village food path.

\_\_\_\_\_

### **SECTION B.**

41. (a) Name any **two** insects that sting their enemies.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Why do the above named insects sting their enemies?

\_\_\_\_\_

(c) State **one** difference between a scorpion and a preying mantis.

\_\_\_\_\_

\_\_\_\_\_

42. (a) What is thinning?

\_\_\_\_\_

(b) Give any **two** advantages of thinning.

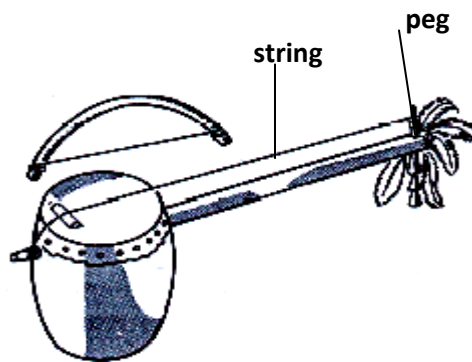
(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) Why are the leaves of a plant considered to be the most important part?

\_\_\_\_\_

43. The diagram below is a musical instrument. Study it and answer question 43.



(a) To which group of musical instruments does the above belong?

\_\_\_\_\_

(b) How does it produce sound?

\_\_\_\_\_

(c) What can be done to change the pitch of the above instrument?

\_\_\_\_\_

(d) Give any **one** way of storing the sound produced by the above instrument.

\_\_\_\_\_

44. (a) Name any **two** respiratory organs.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) How are the air sacs able to perform their function of gaseous exchange?

\_\_\_\_\_

(c) Where in the human body does internal respiration take place ?

\_\_\_\_\_

45. (a) Give any **two** properties of pure water.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Why is distilled water not recommended for drinking?

\_\_\_\_\_

(c) Name **one** method used to produce clean water from dirty water.

\_\_\_\_\_

46. (a) What is a human skeleton?

\_\_\_\_\_

(b) In which way are muscles useful to the muscular skeletal system?

\_\_\_\_\_

(c) Give any **two** ways of caring for the muscular skeletal system.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

47. In four short sentences, describe how you would separate a mixture of salt, sand and iron filings.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_
- (iv) \_\_\_\_\_

48. (a) What is a balanced diet?

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(b) Give any **two** major components of a balanced diet.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

(c) Give any **one** importance of water to the human body.

\_\_\_\_\_

49. Below is a list of different groups of simple machines.

(a) How are they applied in our daily life?

- (i) Pulleys\_\_\_\_\_
- (ii) Wedges\_\_\_\_\_
- (iii) Wheel and axles.\_\_\_\_\_

(b) Why is it easier to drop a load from a lorry than lifting it back to the lorry?

\_\_\_\_\_  
\_\_\_\_\_



50. (a) Write PHC in full.

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(b) Which element of PHC helps in the control of the following;

(i) Rapid population growth

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(ii) Drug abuse and addiction

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(c) State any **one** principle of PHC.

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51. (a) Why do builders construct houses with a damp proof course?

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(b) How dangerous is it to have a latrine near a water source?

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(c) Give the use of the following components of a residential house.

(i) Windows

---

(ii) Ventilators

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52. Match the items in list A with those in B.

A	B
Oviduct	absorption
ileum	diffusion
Cortex	fertilization
alvaeoli	filtration
(i) Oviduct	_____
(ii) Strip cup	_____
(iii) Cortex	_____
(iv) Alveoli	_____

53. (a) What is mulching?

\_\_\_\_\_

(b) Name any **one** material used for mulching.

\_\_\_\_\_

(c) Write down **one** advantage and disadvantage of mulching.

(i) Advantage\_\_\_\_\_

(ii) Disadvantage\_\_\_\_\_

54. (a) What protozoa causes malaria?

\_\_\_\_\_

(b) Where do female mosquitoes lay their eggs?

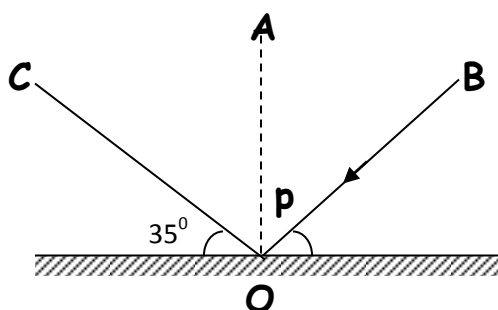
\_\_\_\_\_

(c) Give any **two** ways of controlling the spread of malaria fever.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

55. The diagram below shows three rays of light on a mirror.



(a) What kind of reflection is shown above?

\_\_\_\_\_

(b) Name ray

**BO.** \_\_\_\_\_

(c) Put an arrow head correctly on ray **CO**.

(d) What is the size of angle **P** in degrees?

\_\_\_\_\_

**END**