

# EDUCATION SOURCE EXAMINATION BOARD

PRE – PLE SET IV/V

2024

INTEGRATED SCIENCE

*Time Allowed: 2 hours 15 minutes*

TARGET MARK

Random No.						Personal No.		

**Candidate's Name:** .....

**Candidate's Signature:** .....

**District ID:**

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**Read the following instructions carefully:**

1. Do not write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**. Section **A** has **40** questions (**40marks**) and section **B** has **15** questions (**60 marks**).
3. Answer **all** questions. **All** answers for both sections **A** and **B** must be written in the spaces provided.
4. **All** answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated: "**For Examiners' use only**" and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
<b>TOTAL</b>		

### SECTION A: (40 Marks)

1. Name any **one** immunisable disease of the respiratory system.

2. Apart from body balance and hearing, state **one** other use of the ear to an elephant.

3. In which way can rats be harmful to human to human health?

#### 4. How can nutritional deficiency disease be prevented at home?

5. Why cant digestion of food take place in the colon?

6. Convert  $32^{\circ}\text{F}$  to  $^{\circ}\text{C}$

7. Name any **one** physical change that helps in rain formation.

8. State any **one** method of preparing food.

9. How is a sunbird adapted to feed on nectar from flowers?

10. Bricks can be made from clay soil. How can they be made stronger after drying them?

11. Name the poultry vice which directly reduces on the number of chicks on the farm.

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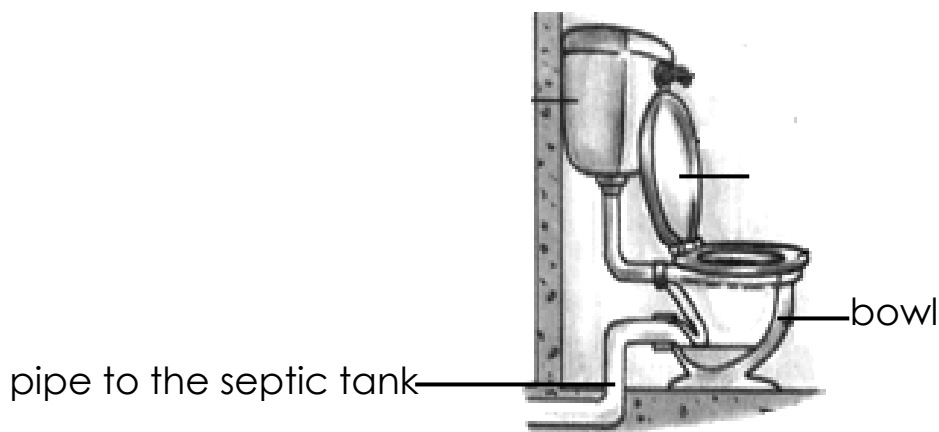
12. State any **one** characteristic of amphibians.

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13. State **one** effect of smoking to pregnant mothers.

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**Study the diagram of a latrine and use it to answer questions 14 and 15.**



14. State any **one** way of caring for the above latrine.

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15. Why should part **Q** be more raised than part **P** when constructing the above latrine?

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16. Opili spread perfume from the corner of a classroom later after one second every child sensed the smell. By what process did smell reach other children in different corners of the classroom?

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17. Give any **one** example of a fossil fuel.

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18. In which **one** way can untreated malaria lead to anaemia?

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19. How can a P.7 pupil manage non biodegradable materials like Buvera at home?

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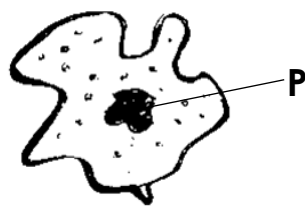
20. Give any **one** application of levers in our daily life.

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21. State any **one** method of harvesting crops in garden.

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**The diagram below is of a blood component. Study it carefully and use it to answer questions that follow.**



22. Name part **P**.

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23. In which **one** way can the above component defend the body of a P.7 candidate against infections?

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24. State any **one** example of essential drugs.

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25. Mention any **one** cattle product that can be eaten as food.

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26. Which property of air enables health workers to draw blood samples from patient's body using a syringe?

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27. Why do we find it difficult to write on a paper where oil has been poured?

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28. State **one** way of controlling the spread of diseases that are spread through 4Fs.

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29. In the space below, draw a taproot system.



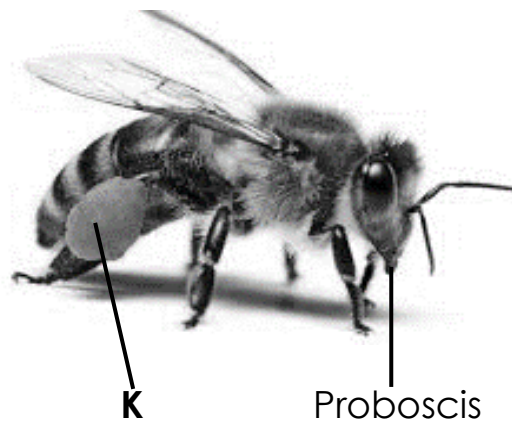
30. State **one** condition which can force a fuse to melt.

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31. Which element of PHC is promoted by encouraging people in a home to feed on a balanced diet?

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**The diagram below shows a worker bee. Study it carefully and use it to answer questions 32 and 33.**



32. Name part **K**.

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33. State any **one** role played by the above bee in the hive.

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34. Mention any **one** life skill that can safe guard a P.7 candidate against drug abuse.

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35. Give any **one** item at home that can be used to promote personal hygiene.

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36. Mention **one** way of extracting honey.

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37. State any **one** use of shadows to people.

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38. How is the skeletal system important to the circulatory system?

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39. In which **one** way can a P.7 candidate help to promote cleanliness of the compound at home?

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40. State **one** device that uses magnets.

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### SECTION B

41. a) State any **two** items where people can store their food for future use.

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

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

b) Mention any **one** benefit of proper storage of food at home.

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c) Give any **one** way of preserving food at home.

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42. a) State any **one** importance of the following body organs.

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

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

b) Give any **one** way of caring for each of the following body organs.

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

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

43. The diagram below shows gear wheels, study them carefully and answer questions that follow.



a) Give any **one** device where such machines are found.

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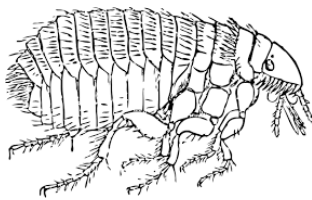
b) In which **two** ways do machines simplify work?

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

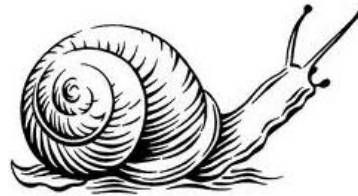
(ii) \_\_\_\_\_

c) Using arrow heads, show the direction of movement of the above wheels.

44. The diagram below shows disease vectors. Study it carefully and answer questions that follow.



**P**



**Q**

a) Name the disease vector labelled **P**.

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b) State any **one** health danger of vector labelled **Q** to humans.

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c) In which **one** way can people control the spread of **P**.

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d) Mention any **one** health benefit of ironing clothes.

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45. a) State the first aid given to the following accidents.

(i) Minor cuts \_\_\_\_\_

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

b) State any **one** quality of a good first aider.

c) How is a sprain different from strain?

**46. Match the parts of the rabbit given with their uses correctly.**

Part	Use
Eye	smelling
Ear	seeing
Legs	hearing
Nose	walking
	sweeming

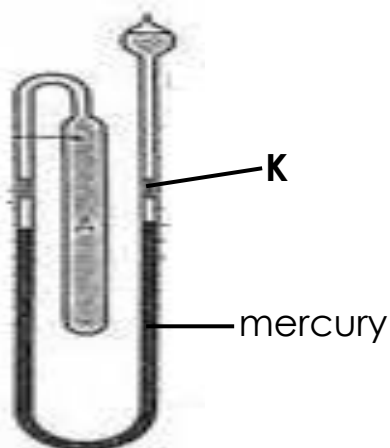
(i) Eye \_\_\_\_\_

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

(iii) Legs \_\_\_\_\_

(iv) Nose \_\_\_\_\_

**47. The diagram below shows a thermometer. Study it carefully and use it to answer questions that follow.**



a) Name the above thermometer.

b) Name any **one** device that can be used to reset the above thermometer.

c) Why is alcohol used for measuring the lowest temperature of the day in countries with very low temperature?



d) Mention any **one** place where the above thermometer can be found.

48. a) Why is it a waste of time to plant spoiled bean seeds?

b) Apart from sorting seeds, give **one** other activity that can be done during dry season.

c) Mention any **two** benefits of row planting method.

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

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

49. a) How useful are the following components of an electric circuit?

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

(ii) dry cells \_\_\_\_\_

b) State the energy change in a dry cell.

c) Give **one** factor that can make a bulb connected in a circuit fail to work.

50. a) Mention **two** reasons why farmers rear birds.

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

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

b) Identify any **one** exotic breed of chickens.

c) Give any **one** condition that can result into reduction on egg production on a farm.

51. a) Give any **one** example of a plant that can be propagated by;

(i) planting suckers \_\_\_\_\_

(ii) planting seeds \_\_\_\_\_

b) Give any **one** benefit of planting suckers over planting seeds.

c) Which part of an onion is eaten?

52. a) What is teenage pregnancy?

b) State any **one** cause of teenage pregnancy.

c) In which **one** way can teenage pregnancy affect a P.7 candidate?

d) Write any **one** life skill that can protect a P.7 candidate against teenage pregnancy.

53. a) Give any **one** example of each of the following muscles.

(i) voluntary muscles \_\_\_\_\_

(ii) involuntary muscles \_\_\_\_\_

(b) How are physical exercises important to the following parts?

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

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

54. a) How do the following animals protect themselves?

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

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

b) Name the house for each of the following animals.

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

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

55. Name any **two** component of soil.

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

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

b) Identify **one** cause of weathering of rocks.

c) Why does clay soil hold more water after raining than sandy soil?

**END**