

EDUCATION SOURCE EXAMINATION BOARD 2024
LOWER ENCOURAGEMENT PRE-MOCK 2024 SET IX/X
INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Random No.						Personal No.		

Candidates Name: _____

Candidates Signature: _____

District: _____

Read the following instructions carefully.

1. This paper is made up of two Sections: A and B.
2. Answers to both sections must be written in the spaces provided in full sentences.
3. Section A has 40 questions (40 marks)
4. Section B has 15 questions (60 marks)
5. Attempt all questions. All answers to both sections A and B must be written in the spaces provided.
6. 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.
7. Crossing out of answers will lead to loss of marks.
8. Any handwriting that cannot be easily read may 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		

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SECTION A: (40marks)

1. Name the part of the body used for hearing.

2. Give any one use of wind to people.

3. Which of the following objects can float on water? Stone, balloon, nails.

4. Why are termites regarded as dangerous insects?

5. How many legs has an insect?

The diagram below shows a sick child, use it to answer questions 6 and 7.



6. What disease is the child suffering from?

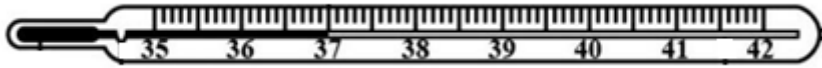
7. Give one way of preventing children from the disease the child in the diagram is suffering from.

8. Why do we eat food?

9. How is rusting similar to burning?

10. State the best way of preventing kwashiorkor in young children.

11. How is the instrument below useful to health workers?



12. How are canine teeth useful to a dog?

13. State one way you can identify an insect pollinated flower?

14. Which human body organ is affected by trachoma?

15. Give one item used to promote sanitation at school.

16. Write one use of electricity at school.

17. Give one reason why animals move from one place to another.

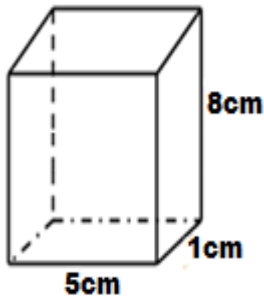
18. Spiracles are to cockroach as _____ are to jackfruit.

19. Name the gas used in fire extinguishers.

20. Mention one group of animals that move by swimming.

21. Suggest one reason why some plants climb other plants.

22. Calculate the volume of the box below.



23. State the reason why plants cannot make food at night.

24. Give one way of preventing newly born babies from tetanus.

25. Suggest one way of keeping our teeth in good health conditions.

26. Give one sign farmers can use to identify a goat which is ready for mating.

27. Identify one health habit that encourages the spread of AIDS/HIV.

28. State the work of queen bee in a hive.

29. Give any one disadvantage of overgrazing.

30. State one effect of heat to metals.

31. How does boiling of water make it safe for drinking?

32. Write PHC in full.

33. State any one condition seeds need to germinate.

34. Identify one human activity where friction is useful.

35. Suggest one way poultry farmers can control vices.

36. Mention any one example of a biological change.

37. Mention one material plants use to make their food.

38. Identify one likely danger of walking in dirty places with bare feet.

39. Give one importance of sun-drying cereals before storing them.

40. State one characteristic of dicotyledonous plants.

SECTION B: (60 marks)

41. (a) State the purpose of rearing the following kinds of birds.

i) Kuroilers:

ii) Sussex:

(b) Give the use of the item below in poultry keeping.



(c) In one way, state how farmers control dampness in a poultry house.

42. (a) Give the reason why people preserve food.

(b) Suggest one possible method of preserving each food stuff below.

i) maize:

ii) beef:

(c) State one way how food is made dirty.

43. Below are crop growing activities. Give one advantage of each.

i) Thinning.

ii) Dressing bean seeds with ash.

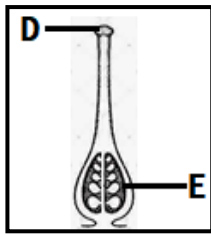
iii) Spraying with herbicides.

iv) Providing a shed to a nursery bed.

44. (a) State one characteristic of wind pollinated flowers.

(b) Apart from wind, name one other agent of pollination.

(c) Use the part of a flower drawn below to answer the given questions.



i) Name the part marked E.

ii) What does part E develop into after pollination and fertilization?

45. Match the groups of animals with their examples.

<u>Group</u>	<u>Example</u>
i) Arachnids	tilapia
ii) Insects	grasshopper
iii) Amphibians	spider
iv) Fish	salamander

i) Arachnids

ii) Insects

iii) Amphibians

iv) Reptiles

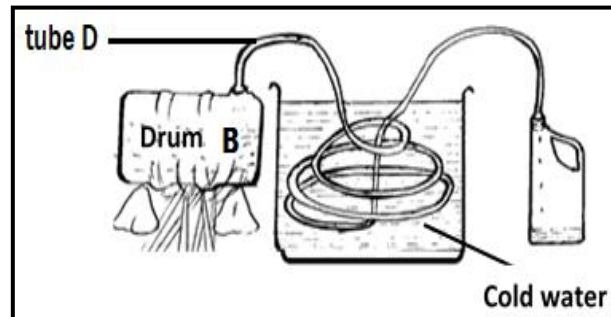
46. (a) What is meant by the term “Drug Prescription”?

(b) Give one advantage of following the doctor's instructions of drug usage.

(c) Identify any one place recommended for buying drugs.

(d) A doctor wrote "2 x 3" on a packet of drugs. What does "2" represent?

47. The diagram below shows a method of producing alcohol. Use it to answer the given questions.



(a) Name the physical process taking place in **drum B**.

(b) State the use of the cold water during the process.

(c) What is the use of tube **D** in the process?

(d) Give one importance of the type of alcohol produced by the process above.

48. (a) Give two advantages of artificial insemination in cattle keeping.

i) _____

ii) _____

(b) What do we call the instrument used for artificial insemination?

(c) Give one sign used by farmers to identify a cow ready for insemination.

49. (a) State any two components of air besides carbon dioxide.

i) _____

ii) _____

(b) State any one property of air.

(c) Why is carbon dioxide used in fire extinguishers?

50. (a) Where do mosquitoes lay their eggs?

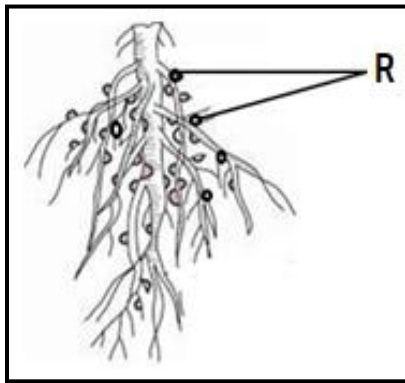
(b) Mention any disease spread by mosquitoes.

(c) Apart from mosquitoes, name any other example of vectors.

(d) Name one item used to against the spread of diseases by mosquitoes.

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51. The diagram below shows a type of roots. Use it to answer the given questions.



(a) Name the structures marked R.

(b) Write two examples of crops with such structures marked R on roots.

i) _____

ii) _____

(c) Crop farmers like including crops with such structures marked R in crop rotation. Give the reason why.

52. (a) Mention any two examples of fungi.

i) _____

ii) _____

(b) Give any one use of fungi to people.

(c) In which way are fungi harmful to people?

53. (a) Mention any kingdom of living things.

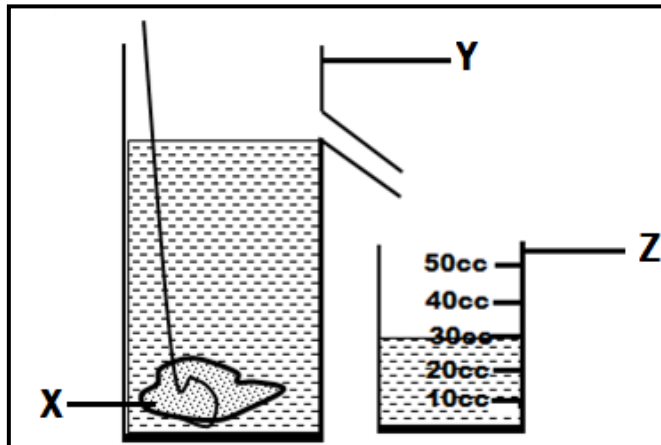
i) _____ ii) _____

(b) Apart from reproducing, write one other characteristic of living things.

(c) Mention any one type of reproduction in living things.

54. The diagram below shows an experiment performed by a P.6 class.

Use it to answer the questions that follow.



(a) What was the experiment about?

(b) Name the containers marked Y and Z.

i) Y: _____ ii) Z: _____

(c) What was the volume of object X?

55. (a) Name any human activity that lead to destruction of:

i) Swamps:

ii) Wild animals:

(b) Give one disadvantage of clearing the vegetation.

(c) Suggest one way of conserving the forests.

END.