

EDUCATION SOURCE 2024

PRE-MOCK 2024 SET VII/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:

1. Name the group of warm blooded vertebrates that mainly reproduce by laying eggs.

2. Why is decomposition regarded to as a chemical change?

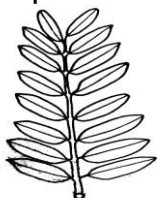
3. State one importance of crop rotation in crop growing.

4. Identify one non-renewable resource in the environment.

5. State one health problem that can be controlled by regular bathing.

6. Mention any one mineral deficiency disease in children.

7. Name the compound leaf drawn below.



8. Apart from getting food, give one way animals benefit from plants.

9. State the immediate effect of untreated dehydration in human beings.

10. Mention one component of air which cannot be used in electric bulbs.

11. Name one drug that is commonly abused in Uganda.

12. Why are spaces left between rails of a railway line?

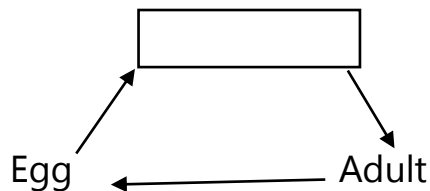
13. State the health benefit of grooming finger nails regularly.

14. Mention any one human activity that degrades the soil.

15. How does breast milk boost the baby's natural immunity?

16. Identify one insect with the type of lifecycle shown below.

17. Complete the life cycle of an insect below.



18. State any one way worm infestation can be controlled.

19. Mention any one sex characteristic that occurs in both adolescent boys and girls.

20. Identify any one example of a fungus in the environment.

21. Give one way of increasing the pitch of string musical instruments.

22. How is measles vaccine administered to babies?

23. What should be done to a victim of severe burns to prevent dehydration?

24. Give one state of matter in which heat transfer by convection occurs.

25. How can clean water be made safe for drinking?

26. Change 90°C into Fahrenheit scale.

The diagram below is of an invertebrate. Use it to answer questions 27 and 28.



27. To which group of invertebrates does the organism above belong?

28. How is the above vertebrate harmful to human health?

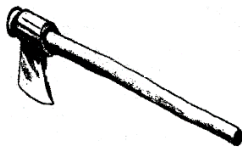
29. Name the component of soil used by plants as a raw material for photosynthesis.

30. How is bees wax useful to people?

31. Name the force that makes objects weigh less in water than in air.

32. Identify any one example of amphibians.

Below is a common garden tool. Use it to answer questions 33 and 34.



33. State the use of the above common garden tool.

34. Give one way of caring for the above common garden tool.

35. Write down any one PIASCY message found in your school compound.

36. Name the component of blood that produces antibodies.

37. Why are legs of a person who has fainted raised higher than the head?

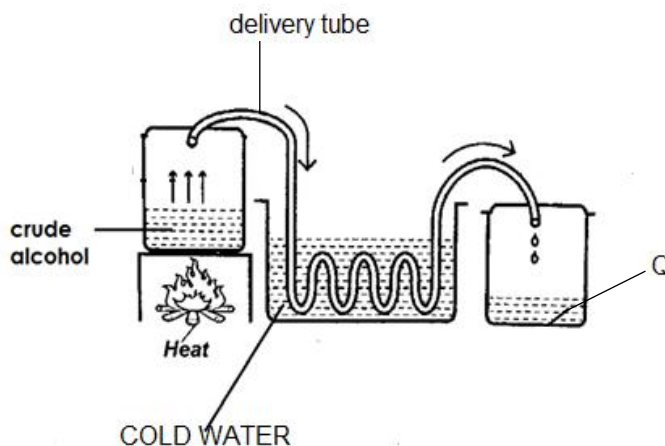
38. Mention any one example of involuntary muscles.

39. Which type of soil is best for making bricks?

40. State one function of leaves to plants.

SECTION B:

41. The diagram below shows a method of making alcohol. Answer questions about it.



- (a) Name the method of making alcohol in the diagram above.

- (b) Give one physical process involved in the method of making alcohol above.

- (c) Identify substance marked Q

- (d) State any one use of alcohol to a health worker.

42. Match the items in list A to the terms in list B.

List A

List B

Dry cells

- Insulator

Dilute sulphuric acid

- metallic conductor

Rubber

- primary cells

Copper wire

- electrolyte.

(i) Dry cells _____

(ii) Dilute sulphuric acid _____

(iii) Rubber _____

(iv) Copper wire _____

43. (a) Give one example of the group of birds below.

(i) Birds of prey _____

(ii) Swimming birds _____

- (b) How are some birds adapted to flight?

(c) How is reproduction in birds similar to that in amphibians?

44. (a) What is a nursery bed?

(b) Why are some crops first planted in a nursery bed?

(c) Give two examples of crops that are first planted in a nursery bed.

45. (a) State the importance of toilets and latrines in our communities.

(b) Mention any one type of latrine used by people in your community

(c) Write down two ways of caring for toilets and latrines.

i) _____

ii) _____

46. (a) Mention one method of grazing cattle.

(b) Give two ways of controlling tick borne diseases in cattle.

i) _____

ii) _____

(c) Besides parasites and diseases, give one other problem faced by cattle farmers in Uganda

47 (a) Name two raw materials for producing biogas.

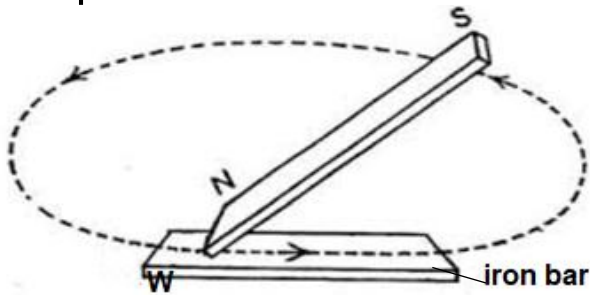
i) _____

ii) _____

(b) State how the use of biogas is friendly to the environment.

(c) How can a crop farmer make use of the residues obtained after biogas production?

48. Study the method of making magnets drawn below and answer the questions that follow.



(a) Name the method of making magnets above

(b) Identify the poles of magnet that will be formed at point marked W.

(c) Give two uses of magnets in our daily life

i) _____

ii) _____

49a) In which part of the human body do the following occur:

(i) Gaseous exchange? _____

(ii) Respiration? _____

(b) Why does blood from the heart go back to the heart.

(c) Name one non-communicable disease of the human respiratory system

50. (a) Write down two activities done at school to promote PHC

i) _____

ii) _____

(b) State the element of PHC that helps to control rapid population growth.

(c) Give any one member of a school health committee.

51. The table below shows an immunization table. Study it care and answer the questions that follow.

Vaccine	Age	Site	Way of administration
BCG	At	Right upper arm	By injection.

(a) How is the above vaccine administered to babies?

(b) Identify the immunizable disease controlled by the vaccine in the table above.

(c) Why is the vaccine above administered at birth?

(d) Identify one other vaccine babies receive at the same age as shown in the table.

52. (a) Name any one natural source of water in the environment.

(b) Give one item used for harvesting water.

(c) State any one danger of siltation of water bodies

(d) Mention one way siltation of water bodies can be controlled.

53. (a) Identify the materials from which the following components of soil are formed.

i) humus _____

ii) rock particles _____

(b) Give the importance of the soil to man.

(c) Why does sand soil allow water to drain through it easily?

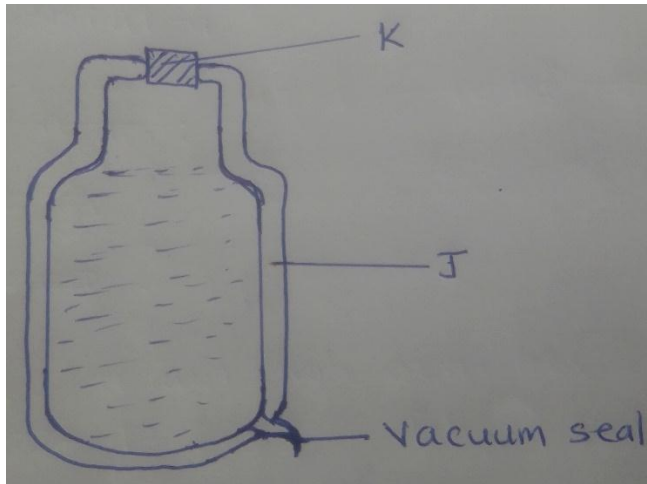
54a) Where in the alimentary canal does digestion of food end?

(b) Name the class of food whose digestion starts in the stomach?

(c) Why are vitamins not digested along the alimentary canal?

(d) Give one way of caring for the digestive system.

55. Study the diagram of the vacuum flask and answer the questions that follow.



a) Name the parts labelled K and J

K _____

J _____

(b) How does part J reduce heat loss or gain?

(c) Give one reason why the above item is not commonly used in some homes.

END.

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