

**SUCCESS ACADEMIC FOUNDATION OF UGANDA (SAFU)**  
PRE - PRIMARY LEAVING EXAMINATION SET VII, 2022



**INTEGRATED SCIENCE**

Time Allowed: 2 Hours 15 Minutes

EMIS NO	PERSONAL NO

Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

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**NOT OPEN THIS BOOKLET UNTIL  
ARE TOLD TO DO SO.**

Please read the instructions carefully:

This paper is made up of Sections A and B.

Section A has 40 short-answer questions. (40 marks)

Section B has 15 questions. (60 marks)

Answer All questions. All answers to both Sections A and B must be written in the spaces provided.

Answers must be written using blue or black ball point pen or ink.

Diagrams should be drawn in pencil. Necessary alteration of work may lead to loss of marks.

Handwriting that cannot be read may lead to loss of marks.

Do not fill anything in the boxes indicated.

Examiners' Use Only.

**FOR EXAMINERS' USE  
ONLY**

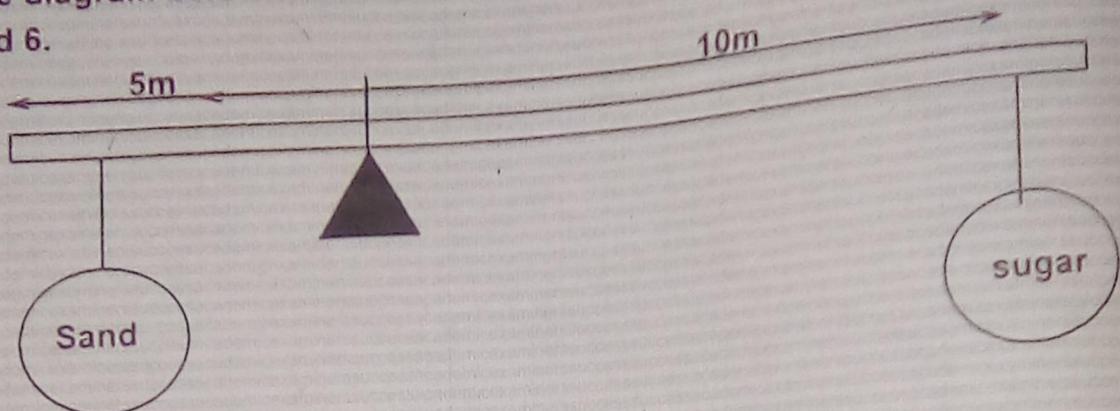
Qn. No.	Marks	Final Mark
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
<b>TOTAL</b>		

**SECTION A**

Questions 1 to 40 carry one mark each.

1. Name any one example of plants that grow prop roots.
2. State one way in which a magnet is useful to a radio mechanic.
3. How is a windmill useful on a plantation farm?
4. Why does blood from the lungs go to the heart?

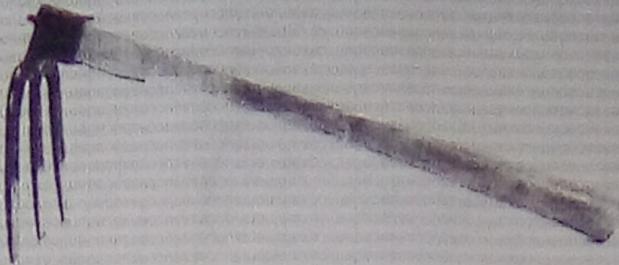
The diagram below shows a simple machine. Use it to answer questions 5 and 6.



5. Which of the two items is heavier?
6. Give a reason for your answer in number 5 above?
7. Why is it dangerous for a father to smoke near his family members?
8. How can the spread of diarrhoea be controlled in our homes?
9. Ticks depend on cattle for survival, what scientific term is given to ticks in this relationship?
10. Why is it dangerous to share a living room with domestic animals?
11. Write down one disorder of the reproductive system in women.
12. Why is it more difficult to move on a slippery surface than on a rough one?
13. Which type of soil has the highest capillarity?
14. How can a Primary Seven child participate in an immunisation program?

15. Why do the ribs move upwards and outwards during inspiration by man?

Below is a diagram showing a garden tool. Use it to answer questions 16 and 17.



16. State the importance of the garden tool shown above.

17. Give any one way you can care for the above garden tool?

18. Why is it necessary to wash fresh fruits before eating them?

19. How do farmers obtain honey from combs after harvesting?

20. State any one way pests are a disadvantage to a crop farmer?

21. How can dirt be dissolved in clothes during the process of washing?

22. State any one animal field activity that harms cattle.

23. In what way is the cause of COVID - 19 similar to that of polio?

24. Why is sugar an important component of Oral Dehydration Solution?

25. State any one factor that increases the rate of transpiration.

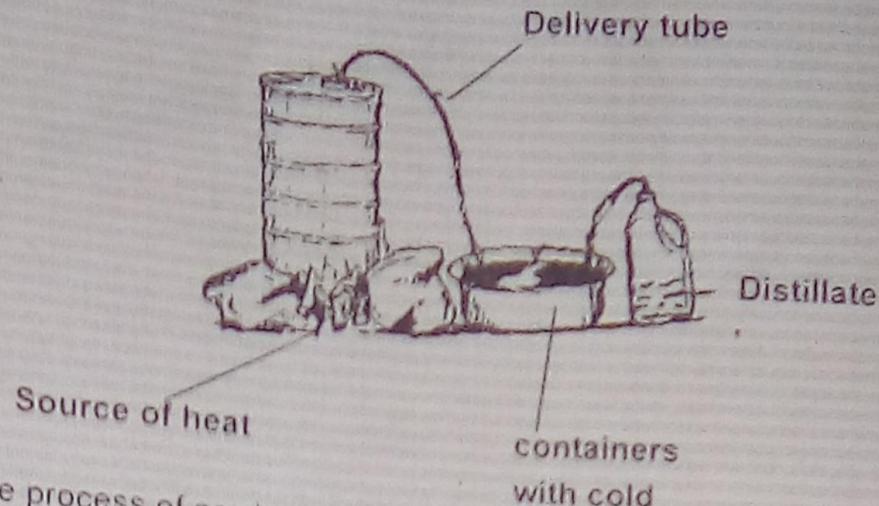
26. Which component of a living house has a similar function to the upper holes on a charcoal iron box?

27. For what reason are crushed snail shells included in the mesh of layers?

28. Name the stage of mosquitoes controlled by rearing fish in ponds?

29. What name is given to the blood vessels through which blood enters and leaves the kidney?

The diagram below shows a method of producing alcohol. Use it to answer questions 30 and 31.

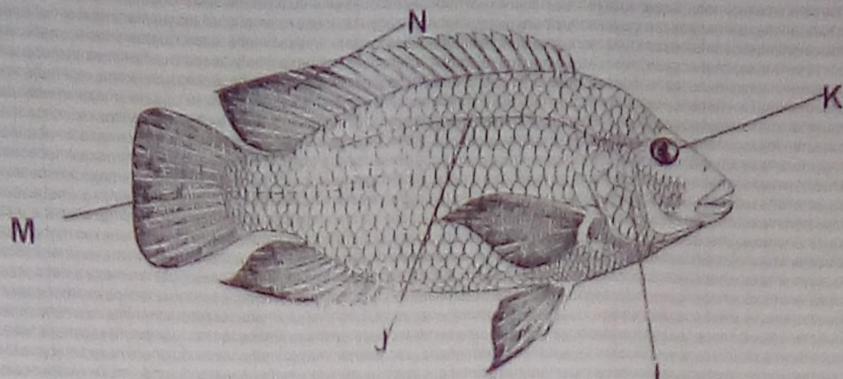


30. Name the process of producing alcohol shown in the diagram above
31. How is alcohol produced using the above process named in number 30 useful in the prevention of COVID - 19 spread?
32. Name the fruit that is used as an electrolyte in the making of a simple cell.
33. On a rainy day, Peter saw light from the sky and later heard sound. Why did he hear sound after seeing light?
34. State any one reason why pruning is necessary in the growing of fruit plants.
35. Give any one kind of help given to a person who is physically disabled.
36. State any one cause of cannibalism in broilers.
37. In what one way is sound stored by recording be reproduced?
38. What is the appropriate first aid for removing a foreign body from the ear?
39. Why is a tick called a vector in goat keeping?
40. State any one way how adolescents manage body changes.

### SECTION B (60 MARKS)

Questions 41 to 55 carry four marks each.

The diagram below shows a fish.

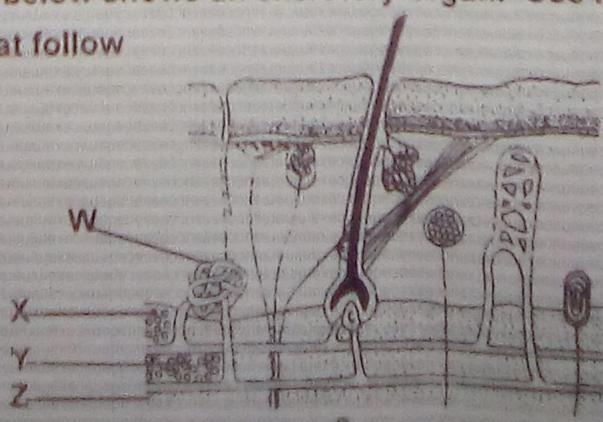


41. a) Name the part marked L.
- 
- b) Which letter shows the fin that has a similar function to that of a steering wheel of vehicles?
- 
- c) How is the eye of a fish protected from currents of water?
- 
- d) Why are pregnant mothers advised to feed on fish?
- 
42. a) State any one natural and man-made cause of soil exhaustion
- natural cause
- 
- man-made cause
- 
- b) Give any two ways of controlling soil exhaustion in our environment.
- -
- 
43. Complete the table below correctly.

Juice	Digestive Part	Enzyme produced	Food acted upon
Succus entericus		Maltase	Maltose
	Pancreas		Fats
Gastric Juice	Stomach		Digests milk in babies

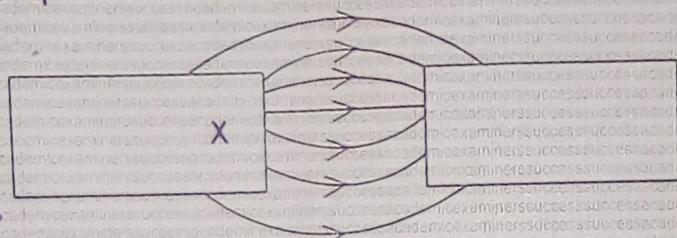
44. a) Name the vector-borne disease which causes fever to human beings.
-

- b) How is fever different from convulsion?
- c) Write any one way in which fever in human beings can be controlled?
- d) Give any one way people can treat diseases without using drugs
45. a) State the use of tendon tissues within the human body.
- b) How is the function of the synovial fluid in movable joints similar to that of pleural fluid found between the rib cage and lungs?
- c) Give any one way in which joints are important in the human body
- d) Why is it a good health habit to observe right body posture?
46. a) Which process occurs in the biogas digester?
- b) Mention any one material used in the making of biogas
- c) Give any one reason why a biogas digester should be tightly sealed
- d) How has the use of biogas helped to conserve the environment?
47. Match the methods of separating mixtures in list A with the mixtures in list B.
- List A**
- Use of a magnet
  - Fractional distillation
  - Separating funnel method
  - Filtration
- List B**
- separates seeds from fruit juice
  - separates water and paraffin
  - separates iron filings and maize flour
  - separates water and alcohol
- i) Use of a magnet \_\_\_\_\_
- ii) Fractional distillation \_\_\_\_\_
- iii) Separating funnel method \_\_\_\_\_
- iv) Filtration \_\_\_\_\_
48. The diagram below shows an excretory organ. Use it to answer the questions that follow



- a) Name any one sublayer found on layer marked X.
- 
- b) How useful is part marked W?
- 
- c) In what way does layer marked Z keep the body warm?
- 
- d) Name the bacterial disease that affects the above organ and the skeletal system.
- 
49. a) State any one cause of poisoning in homes
- 
- b) Why is it dangerous to make a victim who has swallowed paraffin to vomit?
- 
- c) Give any one step involved in giving first aid to a person poisoned by a snake.
- 
- d) State any one sign of poisoning.
- 

Below is a diagram showing one of the properties of magnets. Use it to answer questions that follow.



50. a) Name the pole of magnets marked X.
- 
- b) State a reason to support your answer in part (a) above.
- 
- c) Which kind of magnet is used in electric bells.
- 
- d) State any one way permanent magnets can be protected from losing their magnetism.
- 

51. Use the organisms below to answer the questions that follow

- R                      V  
Ferns                Puffballs  
Mosses              Toad tools  
Horsetails          Oyster

- a) To what group of plants do organisms in list R belong

- b) How are the organisms in list R similar to those in list V.

- c) Why can't organisms in list V make their own food?
- d) State any one use of plants in the environment
52. a) State any two similarities of images formed by a pin a hole camera and a lens camera  
i) \_\_\_\_\_  
ii) \_\_\_\_\_
- b) State any one factor that determines the size of images formed by a pin hole camera
- c) Which part of a lens camera has a similar function to the retina of a human eye?
53. a) Apart from vasectomy write any one other permanent method of family planning.  
\_\_\_\_\_
- b) Give any one reason why people carry out family planning.  
\_\_\_\_\_
- c) What name is given to the essential drugs used in family planning?  
\_\_\_\_\_
- d) State any one myth and misconception about vasectomy as a method of family planning.  
\_\_\_\_\_
54. a) How are molecules arranged in solid state?  
\_\_\_\_\_
- b) Which force exists between molecules of the same kind?  
\_\_\_\_\_
- c) Why is heat transfer by convection able to take place in liquids?  
\_\_\_\_\_
- d) What term is given to the temperature at which solids change to liquids when heated?  
\_\_\_\_\_
55. a) State any one way we promote hygiene of the following items  
i) teeth  
\_\_\_\_\_  
ii) clothes  
\_\_\_\_\_  
iii) fingernails  
\_\_\_\_\_
- b) State any one danger of poor personal hygiene.  
\_\_\_\_\_

END