

# SUCCESS ACADEMIC FOUNDATION OF UGANDA (SAFU)

PRE - PRIMARY LEAVING EXAMINATION SET I, 2024



## INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

EMIS NO					PERSONAL NO		

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

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

School Name : \_\_\_\_\_

District Name: \_\_\_\_\_

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

**Read the instructions carefully:**

1. This paper is made up of Sections **A** and **B**.
2. Section **A** has 40 short-answer questions. (40 marks)
3. Section **B** has 15 questions. (60 marks)
4. Answer **All** questions. **All** answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using blue or black ball point pen or ink. Diagrams should be drawn in pencil
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be read may lead to loss of marks.
8. Do not fill anything in the boxes indicated

### 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		
TOTAL		

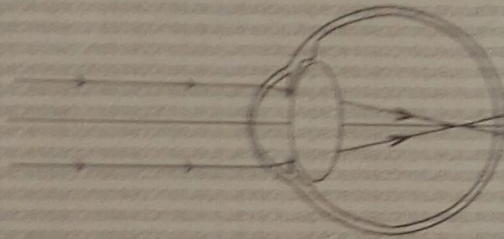
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## SECTION A

Questions 1 to 40 carry one mark each.

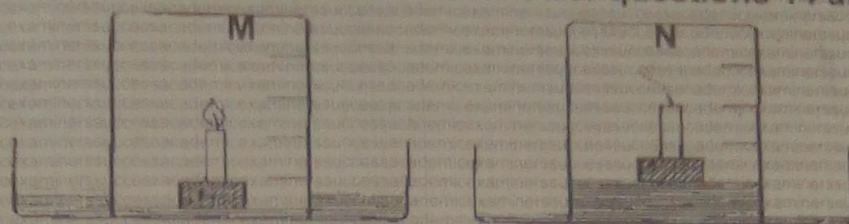
1. Mention any one element of weather that affects the rate of transpiration.  
\_\_\_\_\_
2. Which disease spread by mosquitoes affects the circulatory system?  
\_\_\_\_\_
3. Which component of soil is used by plants to make food?  
\_\_\_\_\_
4. How does friction affect cutting garden tools?  
\_\_\_\_\_
5. In which one way are bacteria useful to the soil?  
\_\_\_\_\_
6. How can you correct the eye defect illustrated in the diagram below?  
\_\_\_\_\_



7. Why is some food needed to be digested before the body is able to use it?  
\_\_\_\_\_
8. Why should a first aider be quick when giving first aid to a casualty?  
\_\_\_\_\_
9. Apart from winnowing, how else do crop farmers depend on wind?  
\_\_\_\_\_
10. State any one factor that can fail a fertilized egg to hatch after the incubation period.  
\_\_\_\_\_
11. Why are hinge joints compared to hinges of doors and windows?  
\_\_\_\_\_
12. How useful is a weather chart in a P.7 classroom?  
\_\_\_\_\_
13. In what way is the body temperature of a python similar to that of a toad?  
\_\_\_\_\_

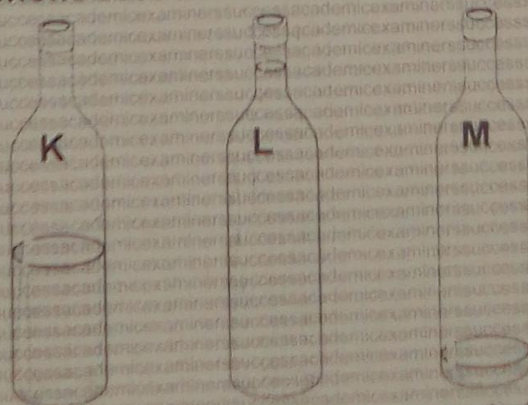


Study the diagram below and use it to answer questions 14 and 15.



14. What caused the candle to stop burning after some time?
15. Why did the water level rise in part N?
16. How is prolonged breast feeding useful to a mother?
17. Which thermometric liquid is used in a Six's thermometer to measure the lowest temperature in a day?
18. State the form of mechanical digestion that takes place in the stomach.
19. Which advice can be given to a breastfeeding mother to produce enough breast milk for her baby?
20. Name the solid fossil fuel.
21. How useful is the coronary artery in the circulatory system?
22. State any **one** common cause of sickness to children under five years in our community.

Study the experiment below and use it to answer questions 23 and 24.



23. Why will bottle **M** produce sound of the lowest pitch when air is blown in it?
24. What can be done to the three bottles to produce sound of the same pitch?



25. How useful is soil used during marcotting as a method of artificial vegetative propagation?
26. Which property of magnets is applied when resetting a Six's thermometer using the metal index?
27. State any **one** secondary sex characteristic common in both adolescent girls and boys.
28. How does a Primary seven girl manage her body biological changes?
29. Why is a casualty that has taken herbicides not advised to induce vomiting?
30. A builder used an effort of 12N to raise a load of 48N.  
How many times did the simple machine simplified the work?
31. Why does the government carry out a health survey?
32. State any **one** cause of temporary deafness.
33. How do molluscs like slugs and snails move?
34. Name any insect vector that undergoes incomplete metamorphosis.
35. State any **one** effect of diseases to growing crops.
36. What term is used to refer to the right positioning of the body when doing any physical activity?
37. Which method of honey extraction involves heating?
38. Why does the air we breathe out have more carbon dioxide than the air we breathe in?
39. Which gland in the human skin produces sebum?
40. State any **one** way a P.7 pupil can keep his/her toothbrush in good hygiene



### SECTION B (60 Marks)

41. Which crop growing practice is carried out by each garden tool named below.

i) Garden trowel

ii) Rake

iii) Sickle

iv) secateur

42. a) An object is placed 20cm in front of a plane mirror.

i) How far will its image be formed behind the mirror?

ii) Give a reason to support your answer in part (a) above.

b) State any **one** device that uses plane mirrors.

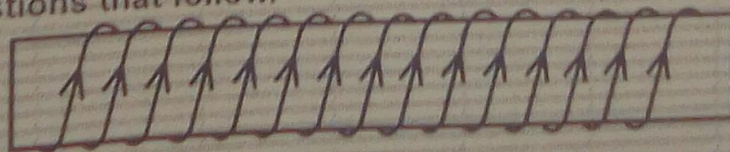
c) Why can't plane mirrors be used to make driving mirrors?

43. Complete the table below correctly.

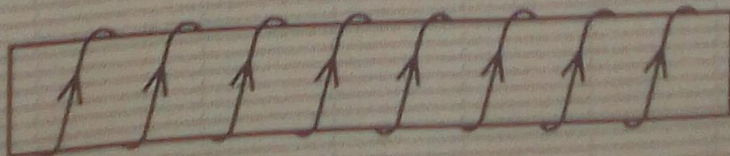
Body organ	Hormone	Function
_____	Testosterone	Production of sperm cells
Kidney	Antidiuretic hormone	_____
Ovary	_____	Controls development of secondary characteristics in females
_____	Insulin	Regulates blood sugars to be converted to glycogen by the liver

44. Below are two soft iron of the same size and length to be magnetised. Use it to answer questions that follow.

Soft iron P



Soft iron Q





a) Which of the two soft iron will produce a stronger electro magnetization when current of the same voltage is passed through them?

b) State the reason for your answer in part (a) above.

c) Why are soft iron commonly used to make electromagnet?

d) Mention any device that uses electromagnet at school.

45. a) What is **ECOSAN** in full?

b) Of what advantage is a VIP latrine over a conventional latrine?

c) Mention any **two** diseases whose spread is controlled by using latrines properly.

i)

ii)

46. a) Which deficiency disease is characterized with:

i) potbelly and face like that of an old person.

ii) swollen belly and swollen lower limbs.

b) Name the deficiency disease that can be prevented by feeding on carrots and red pepper.

c) Which human body system is affected by lack of Vitamin D in children's diet?

47. a) Which method of separating mixtures involves use of a funnel?

b) How is a mixture of immiscible liquids separated?

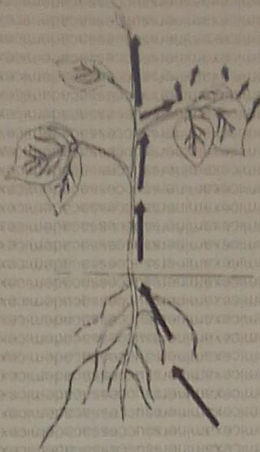
c) State the name given to a uniform mixture.

d) Mention any **one** example of substance that forms a uniform mixture with water.



48. a) State any two health conditions that force a mother to use bottle feeding.  
 i) \_\_\_\_\_  
 ii) \_\_\_\_\_
- b) What problems are likely to be faced by a child who is only bottle fed?  
 \_\_\_\_\_
- c) Why are mothers who are HIV positive advised to apply exclusive feeding of their babies?  
 \_\_\_\_\_

Study the diagram below about a plant process that takes place in leaves and use it to answer question 49.



49. a) Which plant process is illustrated above?  
 \_\_\_\_\_
- b) Why does the above named process in part (a) take place in leaves?  
 \_\_\_\_\_
- c) How does the illustrated process depend on the sun?  
 \_\_\_\_\_
- d) Which kind of plants control the above process by shedding all their leaves during the dry season?  
 \_\_\_\_\_
50. a) Which characteristic makes mammals different from all other vertebrates.  
 \_\_\_\_\_
- b) Name the group of cold blooded vertebrates whose mode of reproduction is similar to that of mammals.  
 \_\_\_\_\_
- c) In what way is each group of mammals named below similar to birds.  
 i) Chiroptera  
 \_\_\_\_\_  
 ii) Monotremes  
 \_\_\_\_\_
51. a) Which internal body is affected by fainting?  
 \_\_\_\_\_
- b) What does fainting indicate?  
 \_\_\_\_\_



- c) State any **two** ways one can safe guard himself/herself from fainting.
- -
52. a) Apart from DPT, name any other vaccine that can be referred to as a triple vaccine.
- b) Why are vaccines administered using different body sites?
- c) Give the reason why measles vaccine cannot be administered to children at birth.
- d) Under which conditions are vaccines safely transported to immunisation centres?
53. a) Which type of cattle disease is controlled by dipping cattle in acaricides?
- b) Apart from dipping cattle, how else can the spread of cattle diseases be controlled?
- c) State any **two** effects of diseases to cattle.
- -
54. a) What term is given to each group of organisms in the food chain
- Bacteria
  - Plants
  - Herbivores
- b) How do carnivores depend on herbivores in the food chain?
55. a) Give the meaning of the following terms as used in drugs
- drug prescription
  - drug misuse
- b) State any **one** way people misuse drugs
- c) In which **one** way is drug misuse dangerous?