

SUCCESS ACADEMIC FOUNDATION OF UGANDA (SAFU)

PRIMARY LEAVING MOCK SET I EXAMINATION, 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.

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		

Turn Over

SECTION A

Questions 1 to 40 carry one mark each.

1. Mention any **one** example of a harmful insect which is a pest.

2. Apart from building, how else is sand soil used at school?

3. Which season is appropriate for harvesting cassava for making cassava flour?

4. Name the protozoan disease in rabbits that also attacks poultry.

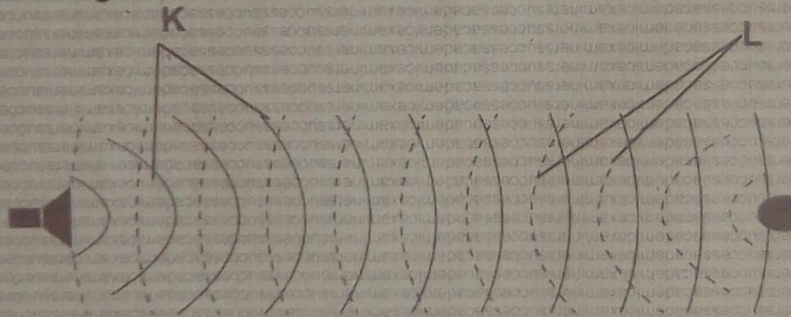
5. Under which health condition of the mother is a baby guaranteed to bottle feeding?

6. State the function of the veins during blood circulation in the human body.

7. What is **posture**?

8. Which energy resource is produced by fermenting the materials it is made from?

Study the diagram below and use it to answer questions 9 and 10.



9. Which of the marked lines indicate reflected sound?

10. What causes reflection of sound?

11. Give any form of energy that will be produced when a ball is kicked?

12. How does hydrochloric acid help to promote good health conditions of the digestive system?

13. How is the endosperm useful during germination of a maize grain?

14. Name the bacterial disease that only affects dairy cattle.

15. Why is the human arm compared to third lever machines when performing work?

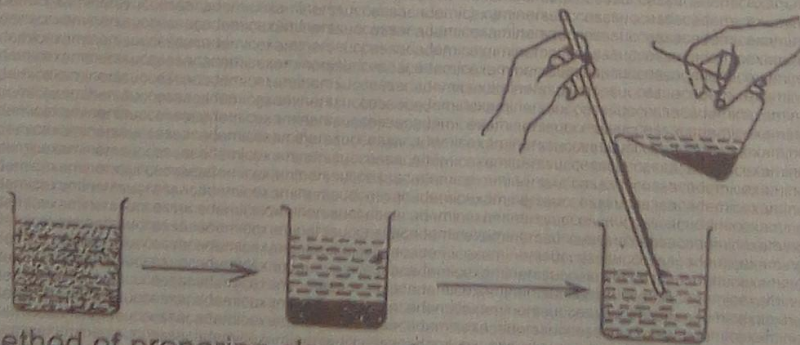
16. State any **one** factor that should be considered when carrying out crop rotation.

The diagram below shows an item used for measuring certain quantity of matter. Use it to answer questions 17 and 18.



17. Name the item shown above.
18. When do people use the above item?
19. How do amphibians help to promote human health?
20. Which bad eating habit leads to easy spread of food borne diseases?
21. In the space provided below, draw a converging beam of light.
22. State any one disadvantage of harvesting honey using the traditional method.
23. How has the government of Uganda managed to reduce infant mortality rate?
24. Besides not being rich in humus, why else is sand soil not good for crop growing?

Below is a diagram showing a method used to prepare clean water. Use it to answer questions 25 and 26.



25. Which method of preparing clean water is illustrated above?
26. Which solid particles can be removed from water using the above illustrated method?

27. Which property of magnets is applied by sailors of ships?
28. The skin is an excretory organ. Which other system does it belong to?
29. Why can't chemical changes be reversed after taking place?
30. Identify any harmful management practice in sheep rearing only.
31. What is the collective name for the following parts of a flower; stigma, style and ovary?
32. How is the nose adapted to its function of being a passage for the air we breathe in?
33. Give any **one** condition under which medical drugs are unsafe for use.
34. State any **one** useful way bacteria help to promote human health.
35. In which **one** way can a family help to promote Primary Health Care?
36. State any **one** way magnets can lose their strength when under storage.
37. How does soil benefit from plants?
38. State any **one** recommended method for harvesting trees as resources.
39. Which process during rain formation depends on sunny weather to take place?
40. State the best way of giving first aid to a person beaten by a snake.

SECTION B (60 MARKS)

Questions 41 to 55 carry four marks each.

- 41 a) Which kind of fungi do people use to,
i) produce fermented alcohol
ii) manufacture antibiotics
- b) How do most fungi reproduce?
- c) Mention any fungal disease people get through poor personal hygiene.

Below is a diagram showing a fish. Use it to answer the questions that follow.



42. a) Name the fin marked X.

 b) In which way are the eyes of a fish similar to those of a bird?

 c) How are parts marked Y adapted to their function?

 d) Which of the marked parts have a similar function to the human ear?

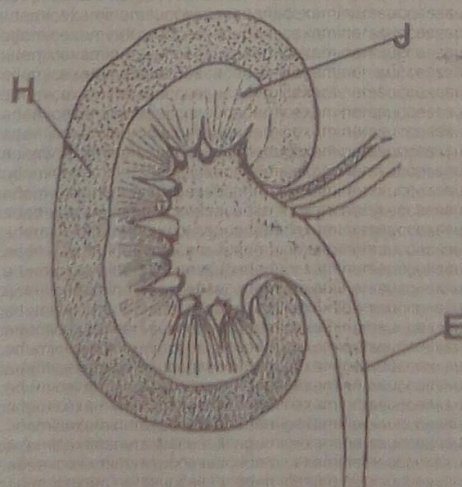
43. a) Which type of teeth in the human dentition is used for;
 i) tearing food

 ii) cutting food

 b) What danger can one face when he/she has a habit of eating sweets?

 c) Which teeth disorder can be caused due to opening a bottle using teeth?

The diagram below shows a kidney. Use it to answer the questions that follow in number 44.



44. a) Where does tube marked E lead the waste material from the kidney?

 b) State the important process that takes place in parts marked
 i) H

 ii) J

45. a) State any **two** characteristics of common tuber crop pests.

i) _____

ii) _____

b) Give any **one** effect of pests to tuber crops.

c) How can pests and diseases be controlled in tuber crops?

46. a) Where does each activity occur during respiration

i) gaseous exchange

ii) production of energy

b) Why is it dangerous to take in cold air?

c) How is the epiglottis useful to the respiratory system.

47. a) In which **one** way is a clinical thermometer different from others?

b) What makes mercury the best thermometric thermometer?

c) A baby's temperature was 35°C when measured in the hospital.
What is the baby's temperature in $^{\circ}\text{F}$?

(2 marks)

48. Match the management practices with their importance.

Practices

i) Artificial insemination

ii) Castration

iii) Dipping

iv) Drenching

Importance

controls tick borne diseases

controls internal parasites

controls venereal diseases

controls inbreeding

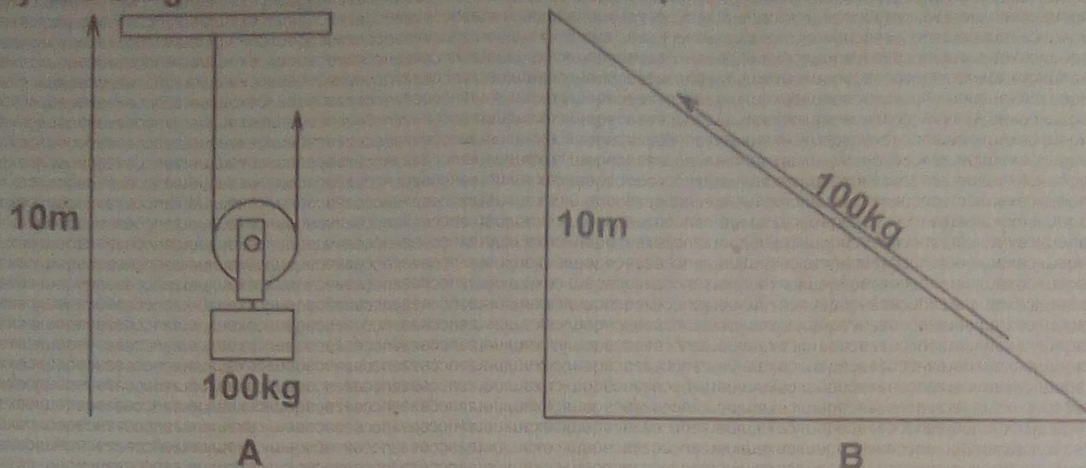
i) Artificial insemination

ii) Castration

iii) Dipping

iv) Drenching

Study the diagram below and answer the questions that follow.



49. a) In which of the **two** machines will the load be lifted with less force?

b) Give a reason to support your answer.

c) Which force is greatly reduced by using machine **B**?

d) How is machine marked **A** useful to builders?

50. a) What is a **foreign body**?

b) Mention any **one** example of a foreign body that enters the nose.

c) What first aid is appropriate for foreign bodies in the nose?

d) How can **one** prevent foreign bodies from entering the body through the mouth?

51. a) State any **two** roles of a mother hen in natural brooding.

i)

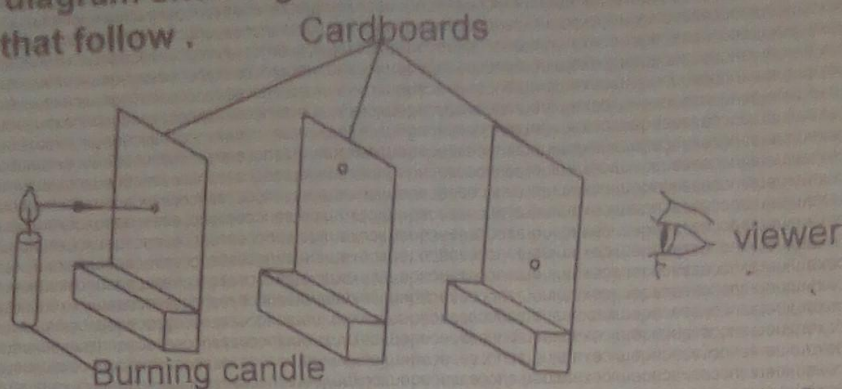
ii)

b) State any **one** disadvantage of natural brooding.

i) to the farmer

ii) the mother hen

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



2. a) Why won't the viewer see light from the burning candle?

- b) Which property of light is proved by the above experiment?

- c) State any other **two** properties of light.
i) _____
ii) _____
53. a) Give the function of each component of the toilet named below
i) septic tank

- ii) Bowl

- b) How can the user of a toilet ensure its proper functioning?

- c) State any **one** problem faced by people who use toilets in urban areas.

54. a) What is **photosynthesis**?

- b) How is each part named below useful during photosynthesis?
i) Root hairs

- ii) Stomata

- c) In which way is photosynthesis useful in the environment?

55. a) Where does each process named below take place?
i) Ovulation

- ii) Fertilization

- b) State any **one** disorder of the female reproductive system.

- c) Name the sexually transmitted disease that leads to blindness in babies.
