

SUCCESS ACADEMIC FOUNDATION OF UGANDA (SAFU)

END OF TERM I EXAMINATION FOR P.7, 2024



INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

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		

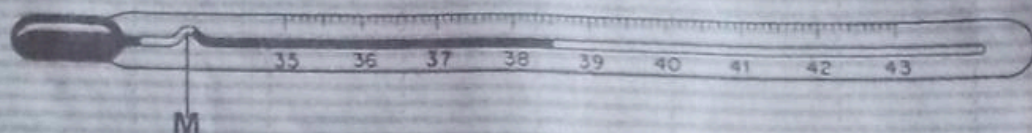
Turn Over

SECTION A

Questions 1 to 40 carry one mark each.

1. Mention any one example of flat bones in the human skeleton.
2. Write down any one activity children carry out to keep their school environment clean.
3. How can a baby's immunity be boosted without immunisation?
4. Name the method of castration in which a burdizo is applied.
5. In which way does temperature affect the rate of transpiration?
6. State any one effect of floods to human health.

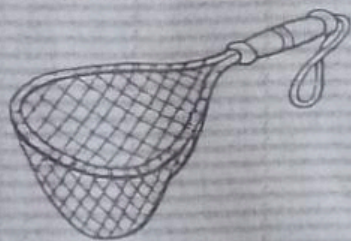
The diagram below shows a clinical thermometer. Use it to answer questions 7 and 8.



7. Mention any one human body part where the above instrument can be put to measure the body temperature accurately.
8. How is part marked M adapted to its function of preventing back flow of mercury before temperature reading is taken?
9. Why are bats not grouped under birds yet they have wings and fly?
10. Which property of magnets is applied when searching for a lost iron needle in sand?
11. Name the human body system that helps the body to produce energy.
12. How is poor personal hygiene a danger to our eyes?
13. State the importance of the least gas in air to plants?
14. Give the way fiber from sheep is harvested.
15. How useful are platelets to an accident victim with a cut?

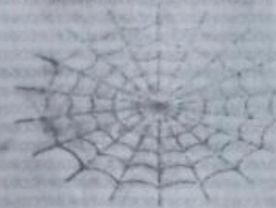
16. What is the primary use of a wind sock on a weather station?
17. State any one way pests can be controlled in tuber crops in gardens.
18. Which PIASCY message protects a P.7 adolescent girl from getting HIV?
19. Mention any one example of non-living renewable resources in our environment.
20. How useful is heat transfer by convection in the environment?
21. State the importance of splints when giving first aid to a person with a fractured limb.

Below is a tool used in bee farming. Use it to answer questions 22 and 23.



22. Name the tool shown above.
23. During what activity in bee keeping is the above tool used?
24. State any one indicator of growth in humans.
25. In the space provided below draw the symbol used to represent the fuse of a circuit.
26. How is the tongue able to carry out the sense of tasting?
27. Musa kept his alarm clock in a vacuum flask. Why do you think Musa will not hear the alarm of the clock?
28. State any one way of controlling the spread of diseases through the 4FS germ path.

29. Why is weaning an important act to breast-feeding babies after six months?
30. How are vaccines transported safely?
31. Which substance in a movable joint has a similar function to the amniotic fluid?
32. Why is decanting not an appropriate method of preparing water for drinking?
33. How is proper ventilation ensured in a modern rabbit hutch?
34. Which vitamin deficiency causes scurvy?
35. How is hydro tropism important to growing plants?
36. Why is the enamel said to be the hardest part of the tooth?
37. Which health benefit is realised by the use of artificial insemination on a cattle farm?
38. Which component of soil is affected by leaching?
39. Why is fermented alcohol with low concentration?
40. Which eight legged animal builds the structure below.



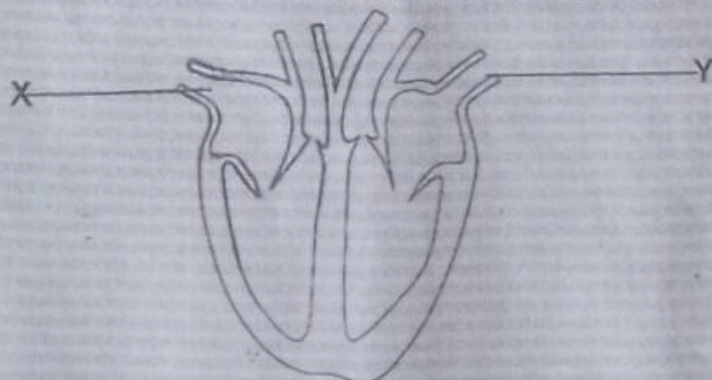
SECTION B (60 MARKS)

Questions 41 to 55 carry four marks each.

41. a) Name the group of fungi used for
 - i) making penicillin drugs
 - ii) baking bread
- b) State any one way fungi obtain food in the environment.
42. In four sentences briefly explain the steps involved when breathing in.
 - i)
 - ii)

- iii) _____
- iv) _____
43. a) Which kind of movable joint is formed by the femur and the pelvic bones? _____
- b) Why are movable joint able to allow movement? _____
- c) State any one disorder of movable joints. _____

The diagram below shows the human heart. Use it to answer question 44



44. a) Shade the side of the heart that receives deoxygenated blood.
- b) Which kind of blood pressure is possessed by blood that flows through vessel marked Y? _____
- c) What enables blood flowing in blood vessels marked X and Y to flow in the direction? _____

45. Complete the table below about groups of plants and their examples correctly.

Group	Examples	
Conifer	_____	Cedar
_____	Mosses	_____
Monocotyledonous plants	_____	Millet

46. a) Which type of immunity is gained by a child after introducing vaccines in his/her body? _____
- b) State any two indicators of a person with weak immunity.
- i) _____
- ii) _____

- c) Which food value boosts the immunity of an individual?
47. a) Which element of weather is measured by the help of a rain gauge?
- b) State any **two** factors considered before setting a rain gauge.
- i) _____
- ii) _____
- c) Mention any **one** component of a rain gauge.

Below are lists showing groups of drugs. Carefully study them and answer question 48.

List A	List B	List C
Vaccines	Alcohol	Pesticides
Panadol	Tobacco	Herbicides
Coatem	Cocaine	Fungicides

48. a) Under which group of drugs are the examples in list
- i) **A** _____
- ii) **C** _____
- b) State any **one** reason why a person may develop the habit of using drugs in list **B**
- c) State any importance of drugs in list **A** to people.
49. a) Name any **one** shape of bacteria.
- b) In which way are bacteria dangerous to human health?
- c) Which mode of sexual reproduction is commonly used by bacteria to reproduce ?
- d) How does a microscope help medical workers to view bacteria?
50. a) Name any **one** example of fertilizers under;
- i) inorganic fertilizers _____
- ii) Organic fertilizers _____
- b) State the way the application of fertilizers to soil helps to restore its fertility.
- c) Mention any **one** method farmers use to apply fertilizers in their crop gardens.

51. a) What is a foreign body?

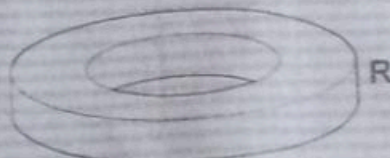
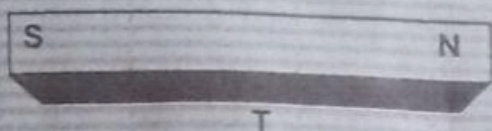
b) Mention any two examples of foreign bodies in our eyes.

i) _____

ii) _____

c) How can a foreign body be removed from the eye without causing further injuries?

Below are shapes of artificial magnets. Study them and answer questions that follow.



52. a) Name the shape of the artificial magnet marked

i) T _____

ii) S _____

b) What is a magnetic field of a magnet?

c) How can a permanent magnet be made to lose its magnetism?

Use the items in the list below to answer questions that follow;

Angora goats, wind, Sisal, Petroleum, coal, uranium

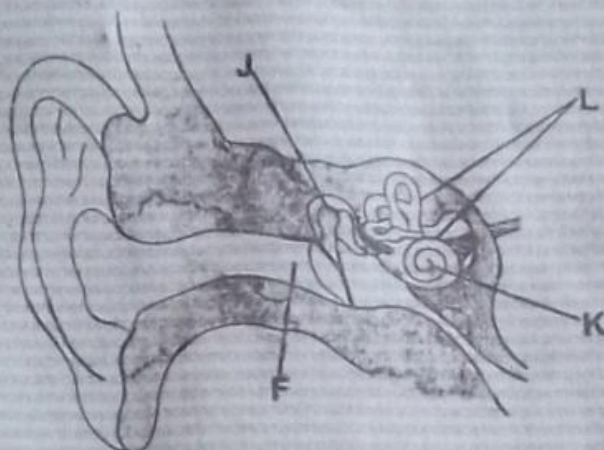
53. a) Identify any one item from the list that is an example of a fossil fuel.

b) In which way is Angora goats and sisal similar as resources?

c) Which item in the list is a resource used to produce nuclear energy?

d) How is wind a useful resource to a crop farmer?

Below is a diagram showing the human ear.



54. a) Name the bone of the ossicles marked F.
 b) What happens to sound vibrations when they reach part marked K?
 c) State the danger caused by taking long to remove wax from the ears.
 d) How is the hearing of human beings different from that of fish?

55. Name any one example of the following materials.

i) Heat conductor

ii) Heat insulator

iii) Heat absorber

iv) Heat reflector

END