

MUKONO MUNICIPAL COUNCIL

MOCK EXAMINATION 2024

INTERGRATED SCIENCE

Time Allowed : 2hours 30 minutes

RANDOM NO.

PERSONAL NO.

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Candidate's Name.....

Candidate's Signature.....

School Name.....

District Name.....

Read the following Instructions carefully:

1. This paper is made up of **two** sections A and B
2. Answer to both sections must be written in the space provided in full sentences
3. Section **A** has **40 question** (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 space provided.
6. All answer must be written in blue or black ballpoint pen or Ink but not in pencil. All work done in pencil, expected diagrams will NOT be marked.
7. Crossing out of answer will lead to loss of marks.
8. Any **hand writing** that cannot be easily read may **lead to loss of marks**.
9. Wrong spelling will lead to **loss of marks**.

FOR EXAMINERS USE ONLY		
Qn. No.	MARKS	EXRS` NO
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 - 49		
50 – 52		
53 - 55		
Total		

SECTION A (TOPIC.....)

Questions 1 to 40 carry one mark each

1. Name the part of the flower that produces the female gametes.

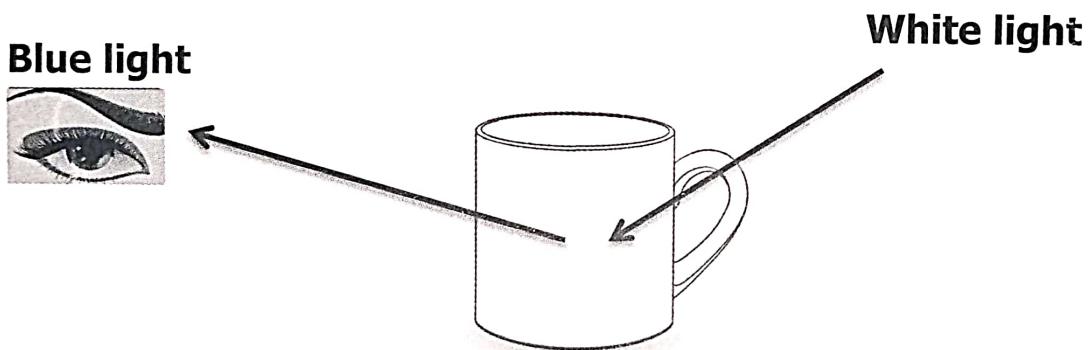
2. Give any **one** way in which petrol can be conserved.

3. In which **one** way is a vector different from a germ?

4. Give a reason why ventilators are put above the doors and windows on a house.

5. What form of energy enables plants to carry out photosynthesis?

The diagram shows a ray of light striking a plastic mug. Use it to answer **questions 6 and 7.**



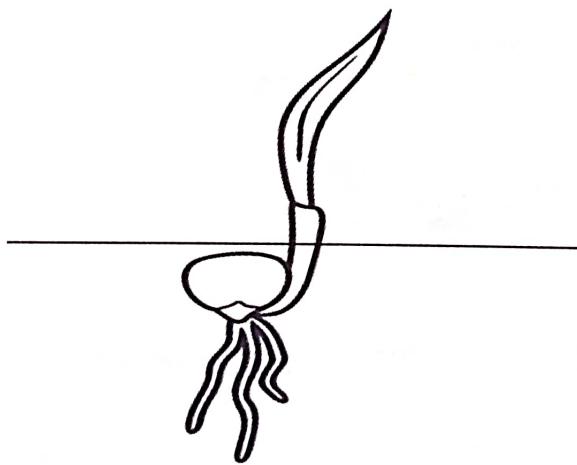
6. Give the reason why the mug appeared blue in white light.

7. State any one effect of refraction of light to people in the environment.

8. Why is it important to plant seeds in a nursery bed before sowing them in the garden?

- 9.** Identify **one** example of plants propagated by suckers apart from a banana.
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- 10.** State how pregnant women and girls of child bearing age are protected from getting tetanus.
-
- 11.** Give any one biological change that enables living things to increase in size.
-
- 12.** Which part of an egg carries out gaseous exchange during the development of an embryo?
-
- 13.** Mention any one piece of advice you would give motorists to reduce road traffic accidents.
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- 14.** Give one advantage of rearing poultry using a cage system.
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The diagram shows a germinating seed, use it to answer questions 15 and 16.



- 15.** Name the type of germination shown in the diagram.
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- 16.** State any one characteristic of seeds that undergo the above type of germination.
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17. Give the different between breathing and respiration.

18. State one role of friction in the environment.

19. Name any one activity that requires the property of air occupies space.

20. Identify the component of soil formed from living organisms.

21. State any one activity a bee farmer will do when preparing to harvest honey.

22. Identify the method used to separate cooking oil that is mixed with water.

23. State the principle on which a pinhole camera works.

The diagram below shows a device used to store sound. Study and use it to answer the questions 24 and 25.



24. Identify the method of storing sound using the device above.

25. State any one way of reproducing sound stored on the device.

26. Give any one way of controlling tick borne diseases on a livestock farm.

27. State one reason why butterflies lay their eggs under plant leaves.

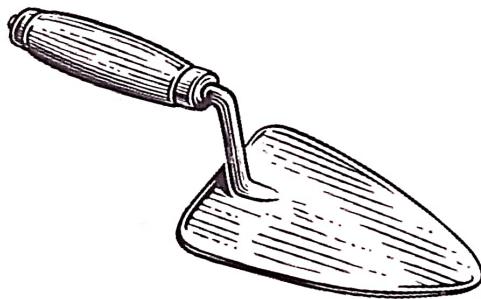
28. Write down any one way water is useful to people in a home.

29. Where does gaseous exchange take place in the human body?

30. Give a reason why water is called a renewable resource.

31. Apart from freezing, give one other change in state of matter due to loss of temperature.

The diagram below shows a garden tool. Use it to answer questions 32 and 33.



32. Identify the importance of the above tool to a crop farmer.

33. State any **one** way of caring for the garden tool.

34. Apart from femur, give one other example of a long bone in the human skeleton.

35. Give **one** reason why a hutch should be raised above the ground level.

36. State **one** reason why clay soil retains water longer than sand soil.



37. Mention one way a person can care for the ear.

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38. State any one importance of heat transfer by convection to human beings.

39. Name the components of soil formed by weathering of rocks.

40. State the property of magnets applied when a pilot uses a compass for locating the position of the town he/she is flying to.

**SECTION B (60marks)****Questions 41 to 55 carry four marks each.**

- 41.** a) How are clouds formed?

b) Identify the clouds that are a warning sign of rain.

c) State any two physical processes in a water cycle.

i) _____

ii) _____

- 42.** a) Give any one characteristic of essential drugs.

b) State any one effect of drugs of dependence to people.

c) Mention any two life skills children can get to safe guard against drugs of dependency.

- 43.** a) Study the table below on classification of birds. Use it to complete correctly the missing parts.

Group of birds	Examples	Adaptation to its habitat
Swimming birds	a) _____	Fully webbed feet (toes)
b) _____	Hawk	sharp curved talons
wading birds	crested crane	c) _____
Perching birds	d) _____	three toes forwards and one backward

- 44.** a) Name any one delicate weather instrument found in a Stevenson's screen.

b) Which element of weather helps people to winnow harvest crops?

c) How is a weather forecast important to a crop farmer?

d) Name the instrument a farmer can use to know the amount of rainfall received in the area.

45. a) Give the meaning of the term **antisocial behavior**.

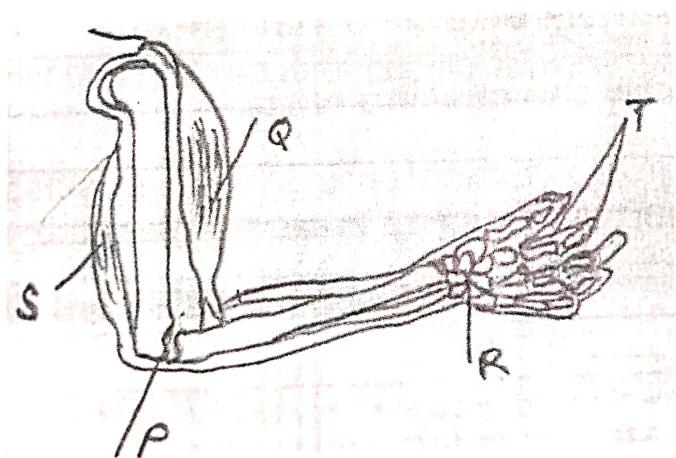
b) Write any **two** common causes of antisocial behavior in a home.

i) _____

ii) _____

c) State one effect of antisocial behavior at home.

46. The diagram below shows part of a human skeleton. Use it to answer questions that follow.



a) Name the bones marked **T**.

b) Explain how muscle **S** and **Q** help to bend the arm.

c) Identify the type of movable joint found at **R**.



47. a) Where in the human body does the process of gaseous exchange take place?

b) State the importance of respiration to the human body.

c) State what happens to the following during breathing in;-

i) lungs _____

ii) rib cage _____

48. a) Give the reason why AIDS is regarded as a sexually transmitted disease.

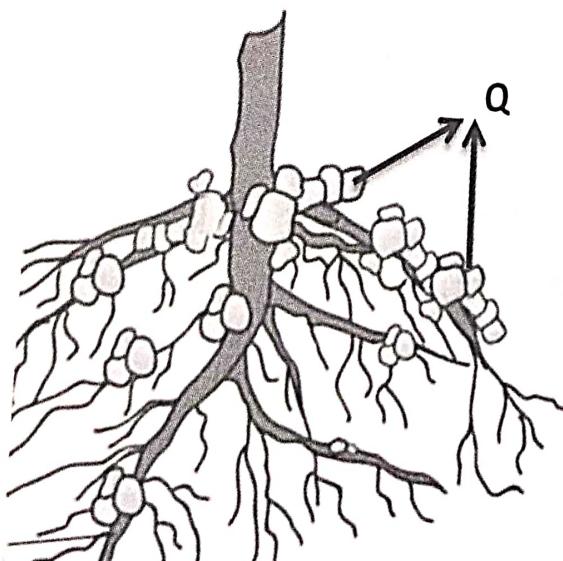
b) State the best way how the following people can prevent themselves from getting HIV/AIDS.

i) School children _____

ii) Married couple _____

c) Mention one group of people at higher risk of getting AIDS.

49. The diagram below is of part of a flowering plant. Use it to answer the following questions.



a) Name the part labeled **Q**.

b) State the importance of part **Q** to such plants above.

c) Apart from growing legumes, give any two ways farmers improve the fertility of soil.

i) _____

ii) _____

50. a) Apart from birds, mention one other group of warm blooded vertebrates.

b) Give any one example of a flightless bird.

c) State a reason why flightless birds are unable to fly.

d) In which way is a duck different from a frog in terms of reproduction?

51. a) Name the antibiotic drug made from fungi

b) Mention one common fungal disease that affects people.

c) Give any two ways of killing bacteria without using chemicals (disinfectants)

i) _____

ii) _____

52. a) State two effects of pests on fruit crops.

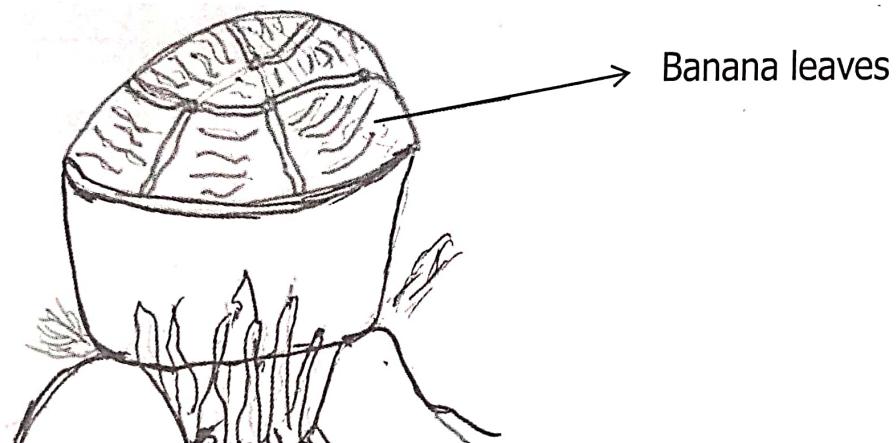
i) _____

ii) _____

b) State one effect of pests that feed on crops by biting to crop farmers.

c) Name the root crop disease spread by a white fly.

53. Study the local method of food preparation shown below and answer questions on it.



a) Name the method heat transfer that enables the food to get ready in the above arrangement.

b) Give the importance of the banana leaves used to cover the food.

c) Apart from bananas, give any one other food stuff prepared this way.

d) Give any one step used in preparing the food before cooking.

54. a) State the property of magnets that enables an electric bell to work.

b) Apart from electric method, give any one other way of making temporary magnets.

c) Mention any two factors that may cause a piece of magnet to lose magnetic properties.

i) _____

ii) _____

55. The table below shows some food nutrients and their importance to the body. Match them correctly.

A (Deficiency)

Iron

Iodine

Vitamin A

Vitamin B1

B (Disease)

Beriberi

Pellagra

Anaemia

Poor night vision

Goitre

a) Iron

b) Iodine

c) Vitamin A

d) Vitamin B1
