



THE REPUBLIC OF UGANDA

# MASINDI MUNICIPAL COUNCIL ACADEMIC BOARD

## MOCK EXAMINATION, 2023

### INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index Number:

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Candidate 's Name: .....

Candidate 's Signature: .....

School Name: .....

District Name: .....

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

Read the following instructions carefully:

1. This paper has **two** sections: A and B.
2. Section **A** has 40 questions (40marks)  
Section **B** has 15 questions (60marks)
3. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
4. **All** answers **must** be written using a blue or black ball –point pen or fountain pen. Diagrams should be drawn in pencil.
5. Unnecessary changes of work may lead to **loss** of marks.
6. Any handwriting that cannot easily be read may lead to **loss** of marks.
7. Do not fill anything in the boxes indicated: "For Examiners ' Use only " and those inside the question paper.

#### FOR EXAMINER'S 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(40marks)**

**Questions 1 to 40 carry one mark each.**

1. Give one example of an amphibian.

\_\_\_\_\_

2. State one characteristic of a true insect.

\_\_\_\_\_

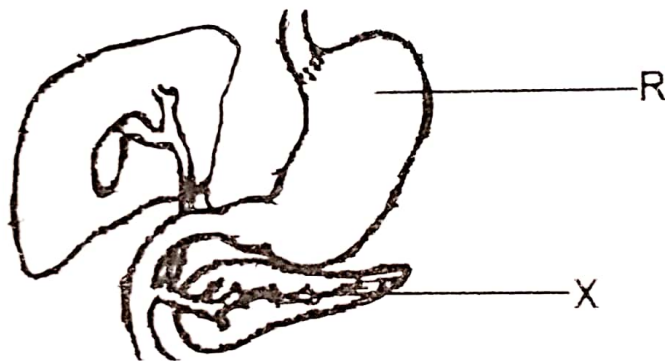
3. Give an example of a plant with root nodules.

\_\_\_\_\_

4. How is wind useful to crop farmers?

\_\_\_\_\_

**Below is part of digestive system. Use it to answer question 5 - 6 .**



5. Name part marked X.

\_\_\_\_\_

6. State one component of juice secreted in part labelled R.

\_\_\_\_\_

7. Give one way of acquiring natural immunity.

\_\_\_\_\_

8. Name one long bone in human beings.

\_\_\_\_\_

9. Mention one disease spread by a rat flea in humans.

\_\_\_\_\_

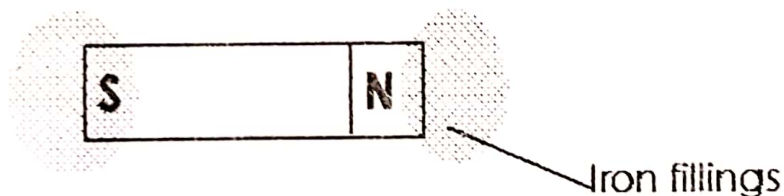
10. How does smoking prevent meat?

\_\_\_\_\_



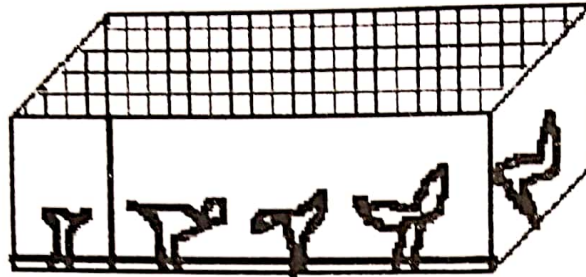
11. Apart from being forms of energy, how does light similar to sound?
- \_\_\_\_\_
12. Name one mineral that is lost in the body during diarrhoea.
- \_\_\_\_\_
13. State one physical difference between a vein and an artery.
- \_\_\_\_\_
14. How does paddock grazing help in proper use of pasture?
- \_\_\_\_\_
15. Name one root tuber crop propagated by seeds.
- \_\_\_\_\_

**Below is a magnet.**



16. Why do you think iron fillings appears as shown on the diagram?
- \_\_\_\_\_
17. Give one way of controlling burns and scalds in children.
- \_\_\_\_\_
18. Name one process that turns sugar into alcohol.
- \_\_\_\_\_
19. Why do white ants come out of the soil after rain?
- \_\_\_\_\_
20. Mention one cause of short circuit in electricity.
- \_\_\_\_\_
21. Apart from protection, write down any other reason why a chameleon changes the colour.

Below is a nursery bed.

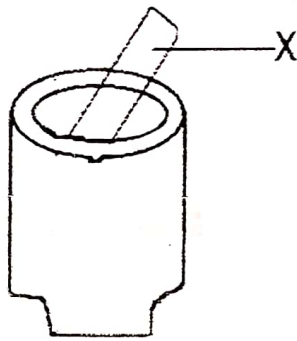


22. Give a reason why farmers remove the shelter after sometimes.  
\_\_\_\_\_
23. Where does pollination occur in flowers?  
\_\_\_\_\_
24. State one way in which umbilical cord useful to a foetus.  
\_\_\_\_\_
25. Give one way how plants depend on other plants.  
\_\_\_\_\_
26. State one use of a safety pin in a first aid box.  
\_\_\_\_\_
27. Write down one activity that can control crop pests in the garden.  
\_\_\_\_\_
28. Write down one factor that may lead of a seed not to germinate.  
\_\_\_\_\_
29. Why is a ventilated improved pit latrine (VIP) left without a cover?  
\_\_\_\_\_
30. How does a caterpillar protect itself?  
\_\_\_\_\_
31. State the role of red blood cell in human body?  
\_\_\_\_\_





Below is an item used at home.



32. Name part marked X.  
\_\_\_\_\_
33. How is a bat different from other mammals?  
\_\_\_\_\_  
\_\_\_\_\_
34. Give one characteristic of matter.  
\_\_\_\_\_
35. Why does a cockroach dies when it walks of on maize flour?  
\_\_\_\_\_
36. Give one way in which a kidney is important to our bodies.  
\_\_\_\_\_
37. Convert  $86^{\circ}\text{F}$  to  $^{\circ}\text{C}$   
\_\_\_\_\_
38. State one effect of rusting on a Panga.  
\_\_\_\_\_
39. Give one disadvantage of friction.  
\_\_\_\_\_

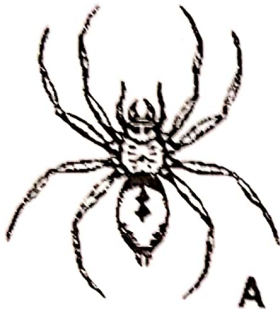
40. Apart from excretory system, mention any other body system do lungs belong.



**SECTION B(60marks)**

Questions 41 to 55 carry four marks each.

41. Below are two organism.



- a). Name the organisms above.

(i). **A**: \_\_\_\_\_

(ii). **B**: \_\_\_\_\_

- b). How does **B** protect itself from enemies?

\_\_\_\_\_

- c). To which group of arthropods does **A** belongs.

\_\_\_\_\_

- 42.a). Write down two agents of pollination.

(i). \_\_\_\_\_

(ii). \_\_\_\_\_

- b). Give one way how plants avoid self pollination.

\_\_\_\_\_

- c). State one characteristics of plants pollinated at night.

\_\_\_\_\_

- 43.a). Write down two ways of preserving food.

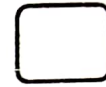
(i). \_\_\_\_\_

(ii). \_\_\_\_\_

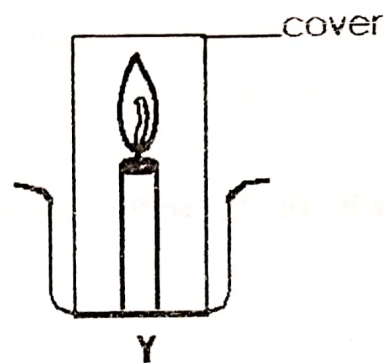
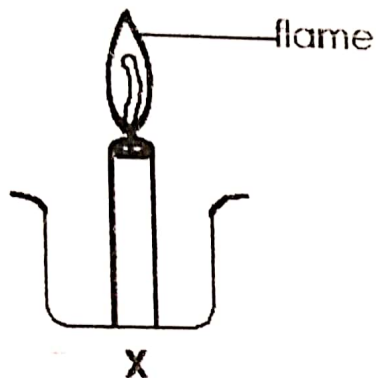
b). Give one reason why we preserve food.

\_\_\_\_\_

c). Name one item at home used to store food.



44. Below are two candles in X and Y.



a). What would happen to the flame in diagram Y if the cover was removed after a short time?

\_\_\_\_\_

b). Give a reason for your answer in "a" above.

\_\_\_\_\_

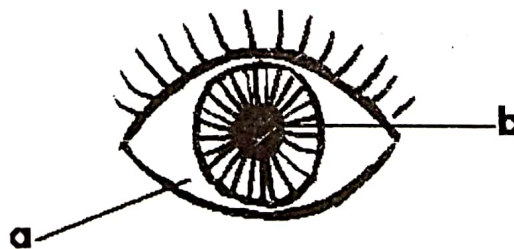
c). If the cover had been left on a jar in diagram Y for a long time what would happen to the flame?

\_\_\_\_\_

d). Give a reason for your answer in a "C" above.

\_\_\_\_\_

45. Below is a body organ.



a). Name part marked **a**.

\_\_\_\_\_

b). Mention one protozoa disease that affect the above organ.

\_\_\_\_\_

c). Write down one way of caring for the above organ.

\_\_\_\_\_

d). Which defect corrected by a converging lens that affect the above organ?

\_\_\_\_\_

46. **Write briefly on the following.**

a). Pruning:

\_\_\_\_\_  
\_\_\_\_\_

b). Thinning:

\_\_\_\_\_  
\_\_\_\_\_

c). Mulching:

\_\_\_\_\_  
\_\_\_\_\_

d). Weeding:

\_\_\_\_\_  
\_\_\_\_\_



47.a). State the function of the following structures in the body.

(i). Ligament:

\_\_\_\_\_  
\_\_\_\_\_

(ii). Tendon:

\_\_\_\_\_  
\_\_\_\_\_

b). Name one disease that attack human skeleton.



c). Mention one part the body where pivot joint is found.

48.a). Write down two items used in displacement methods besides water.

(i). \_\_\_\_\_

(ii). \_\_\_\_\_

b). An object has a mass of 240gm and density of 30g/cc. Find its volume. **(2marks)**

49. Below is a list of items used in a science experiment, salt, water which were later mixed up.

a). Name the;

(i). Solute: \_\_\_\_\_

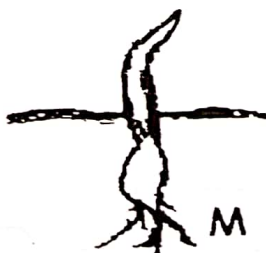
(ii). Solvent: \_\_\_\_\_

b). What would happen to the two items if mixed up together?

c). Name one process you would use to recover salt back to the normal position.



50. Below are germinating seeds.



a). State the type of germination marked **M**.

b). Give one example of a seed under the germination **N**.

c). Apart from warmth name any other two conditions needed for germination.

(i). \_\_\_\_\_

(ii). \_\_\_\_\_

51.a). What is meant by the following terms;

(i). Energy:

\_\_\_\_\_  
\_\_\_\_\_

(ii). Energy resources:

\_\_\_\_\_  
\_\_\_\_\_

b). Give any one reason why plants are regarded as energy resources.

\_\_\_\_\_

c). Identify any one way how man uses energy from the sun.

\_\_\_\_\_

52.a). In which way is reproduction in moss plant similar to that in a mushroom?

\_\_\_\_\_  
\_\_\_\_\_

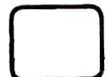
b). Give two example of coniferous plants.

(i). \_\_\_\_\_

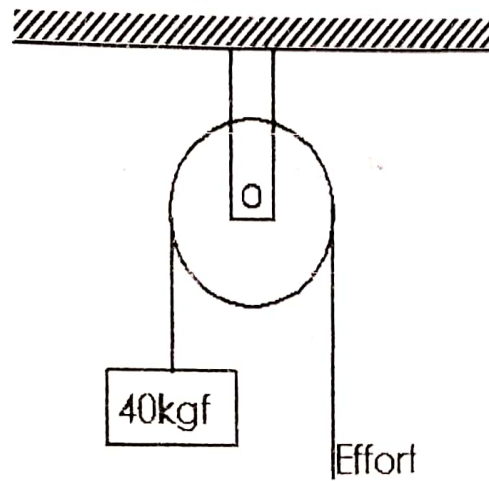
(ii). \_\_\_\_\_

c). Mention one importance of coniferous plants to man.

\_\_\_\_\_



53. The diagram below shows a simple machine. Use it to answer questions that follow.



a). Name the type of pulley shown.

b). If the load is 40kgf, what is the effort required to lift the load?

c). Using an arrow, show the direction of the effort.

d). Give the use of the above machine at the school.

54.a). Write 4Fs in full in their correct order.

b). Name any one disease spread through the 4Fs.

c). Apart from houseflies, give other vector involved in the 4Fs.

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d). State any one way controlling vectors in our homes.

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55. **HIV and AIDs are real, HIV has no cure.**

a). How do babies contract HIV?

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b). Why do you think people between ages of 20 to 40 years are at a high risk of contracting HIV?

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c). Why do very few people of age 60 years and above contract HIV?

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d). State the best way a P.7 child can prevent HIV and AIDs?

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**\*\*\*End Good Luck & Success\*\*\***