



THE REPUBLIC OF UGANDA

# **KIKUUBE DISTRICT LOCAL**

## **GOVERNMENT ACADEMIC BOARD**

### **PRIMARY LEAVING MOCK EXAMINATION, 2024**

### **INTEGRATED SCIENCE**

*Time Allowed: 2 hours 15 minutes*

Random Number						Personal Number		

Candidate's Name:.....

Candidate's Signature:.....

School Name:.....


District ID:.....

Read the following instructions carefully:

1. This paper is made up of two 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 a 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 easily be read may lead to loss of marks.
8. Do not fill anything in the box 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: (40 Marks)**

1. Mention any **one** cattle product.  
\_\_\_\_\_
2. Identify the component of air which helps legumes to make proteins.  
\_\_\_\_\_
3. What is a gamete?  
\_\_\_\_\_  
\_\_\_\_\_
4. Which group of vertebrates is warm blooded?  
\_\_\_\_\_
5. How does a health worker use the child's health card to monitor the health and growth of the child?  
\_\_\_\_\_
6. How do farmers promote easy mating in sheep rearing?  
\_\_\_\_\_
7. Name any **one** non-infectious skin disease which affects people in the community.  
\_\_\_\_\_
8. To which group of vegetables do carrots belong?  
\_\_\_\_\_
9. State **one** danger in a home due to lack of a pit latrine.  
\_\_\_\_\_
10. Why do bees usually visit flowers?  
\_\_\_\_\_
11. Identify the symbol below in electric installation.  
  
\_\_\_\_\_
12. In which state of matter does heat travel fastest?  
\_\_\_\_\_
13. State **one** importance of rearing rabbits to the family.  
\_\_\_\_\_
14. Give **one** way animals depend on soil in the environment.  
\_\_\_\_\_
15. How is the pinna ear similar to the trachea in their adaptation?  
\_\_\_\_\_
16. What causes malaria?  
\_\_\_\_\_



17. Mention **one** condition responsible for the growth of bacteria.

18. How useful is the pancreas in the regulation of blood sugar?

19. Identify the property of magnets shown in the diagram below.

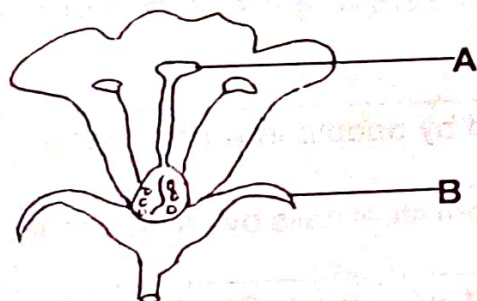


20. State **one** way a child can acquire natural immunity. ☐

21. Mention the sexually transmitted disease which affects the eyes of a newly born baby.

22. Apart from hanging green vegetables in a deep litter poultry house, name another practice that can enable birds to exercise their bodies.

**The diagram below is a reproductive part of a plant. Study and use it to answer questions 23 and 24.**

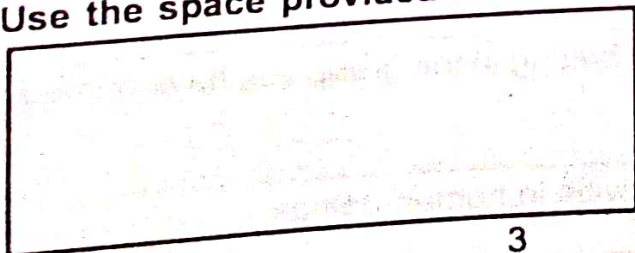


23. How is part B useful to the flower?

24. What happens to pollen grains when they are deposited on part A?

25. Which common accident at home can result from contact with hot piece of metal?

26. Use the space provided below to draw a pruning saw.



27. Which disease in human beings is spread by fresh water snail?
28. In which part of the human kidney does selective re-absorption of useful materials take place?
29. Name the stage in the lifecycle of a housefly which is harmful to human.
30. How is excessive drinking of alcohol dangerous to human health?
31. State the difference between a tendon and ligament in their function.
32. In which units is heat energy measured?
33. State the function of hydrochloric acid in the gastric juice produced by the stomach walls.
34. What name is given to the negatively charged particles of an atom?
35. State one method used by health workers to get health information for the community.
36. Name the wood fuel commonly used by people in urban areas.
37. Why can't iron fillings be separated from steel nails by using a magnet?

**The diagram below shows a foot of a bird. Study it carefully and use it to answer questions 38 and 39.**



38. Identify the group of birds where the above foot belongs.
39. Give one example of birds which belong in the group you have named in (38) above.
40. Mention any one sign of conjunctivitis in human beings.



**SECTION B: (60 Marks)**

41 (a) What is air?

(b) Write down any **two** components of air.

(i)

(ii)

(c) Mention the component of air which is used in respiration.

42. (a) Write down any **two** methods of climbing plants.

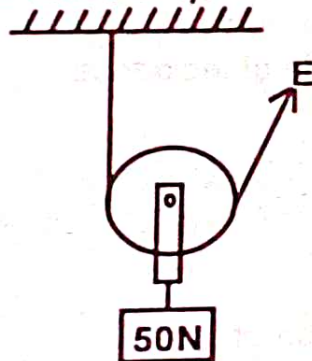
(i)

(ii)

(b) Which method is used by white yams?

(c) State the major reason why plants climb other plants during their growth.

43. *The diagram below is of a pulley machine. Study and use it to answer questions that follow.*



(a) Identify the type of pulley shown in the diagram above.

(b) Calculate the effort applied to pull the load of 50N. (2mks)

(c) State any **one** advantage of using the above type of pulley.



44. (a) Name the type of skeleton possessed by the following organisms.

(i) Tortoise

(ii) Slug

(b) State any **two** importance of the skeleton to the circulatory system.

(i)

(ii)

45. (a) What is evaporation?

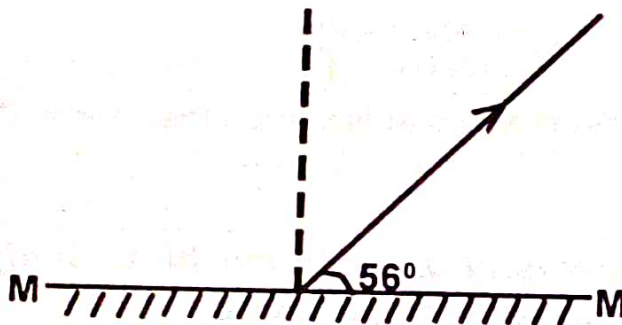
(b) State any **two** factors which affect the rate of evaporation.

(i)

(ii)

(c) How is evaporation important to man?

46. *The diagram below shows reflection of light on a plane mirror. Study it carefully and answer questions that follow.*



(a) Complete the diagram above correctly.

(b) Calculate the size of the angle of incidence.

(2mks)

(c) State any **one** law of reflection of light.

47. (a) What are infectious diseases in humans?



(b) Mention any **two** non-infectious diseases which affect the respiratory system.

(i)

(ii)

(c) Give another name for infectious diseases.

48. (a) Apart from deforestation, Write other **two** causes of soil erosion.

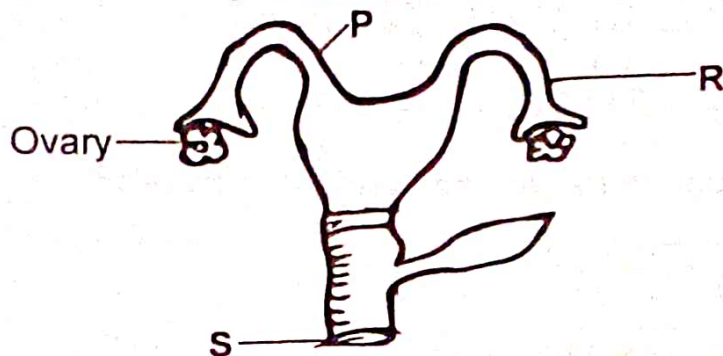
(i)

(ii)



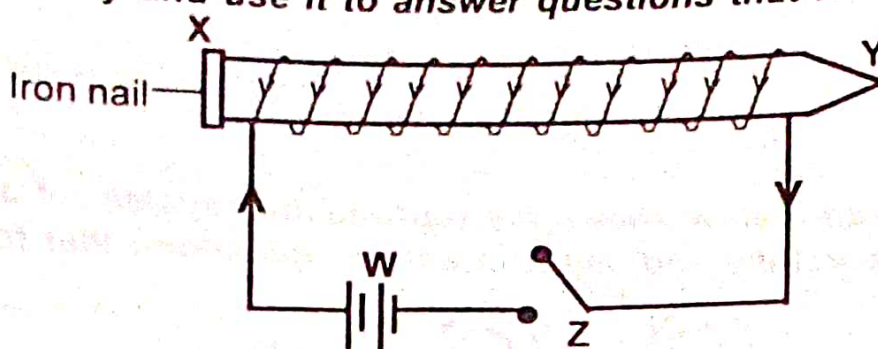
- (b) Briefly explain how deforestation leads to global warming.

49. The diagram below shows the reproductive system of a cow. Study it carefully and use it to answer questions that follow.



- (a) Name the parts labelled with letters S and P.
- (i) S \_\_\_\_\_
- (ii) P \_\_\_\_\_
- (b) Identify the part of the reproductive system where fertilization takes place.
- \_\_\_\_\_
- (c) How is the ovary useful in reproduction? ☐
50. (a) Give **two** factors considered when sorting clothes for cleaning.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (b) State **one** activity done by Mary before soaking John's clothes after sorting.
- \_\_\_\_\_
- (c) Of what importance is the above activity?
- \_\_\_\_\_
51. (a) Apart from charcoal, mention other **two** examples of wood fuel.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (b) Mugisa is provided with following materials to make charcoal, fresh grass, pieces of wood, lump of moist soil, spade and a hoe. Write down the steps Mugisa will follow to have the wood ready for burning. **(2mks)**
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

The diagram below shows a method of magnetisation. Study and use it to answer questions that follow.



- (a) Identify the method of magnetisation above.
- (b) What will happen to the iron nail when Z is closed?
- (c) Name pole X.
- (d) How many dry cells have been used in the circuit?

53. (a) What is meant by the following terms in sound?
- (i) Pitch \_\_\_\_\_
- (ii) Volume \_\_\_\_\_
- (b) How do soft materials reduce echoes in cinema halls?
- (c) Why doesn't sound travel through a vacuum?

54. **Match the plants to their plantings materials correctly.**

- |                     |                |
|---------------------|----------------|
| (i) Sisal           | Stem tubers    |
| (ii) Sweet potatoes | Suckers        |
| (iii) Carrots       | Seeds          |
| (iv) Irish potatoes | Stem cuttings. |

- (i) Sisal \_\_\_\_\_
- (ii) Sweet potatoes \_\_\_\_\_
- (iii) Carrots \_\_\_\_\_
- (iv) Irish potatoes \_\_\_\_\_

55. (a) State the importance of sweating to the body.
- (b) Mention any **one** component of sweat.
- (c) How do hairs on the skin insulate the body against heat loss?
- (d) Which substance of the skin protects the body against strong radiation for the sun?