



THE REPUBLIC OF UGANDA

KUMI MUNICIPAL COUNCIL

**PRE-PLE EXAMINATION 2024**

INTEGRATED SCIENCE

*Time Allowed: 2 hours 15 minutes*

Index No.:

Random Number						EMIS No.		

Candidate's Name: .....

Candidate's Signature: .....

School: .....

District Name: .....

**Read the following instructions carefully:**

1. This paper is comprised of two sections: **A** and **B**. Section **A** has **40** questions (40 marks) and Section **B** has **15** questions (60 marks).
2. Answer **ALL** questions in both sections A and B.
3. **All** answers to **both** sections **A** and **B** must be written in the spaces provided.
3. All answers **must** be written in **Blue** or **Black** ball point **pen** or **ink**. Only diagrams should be drawn in pencil.
4. Unnecessary changes of work and handwriting that cannot easily be read may lead to loss of marks.
5. Do not write anything in the table indicated: **"FOR EXAMINERS' USE ONLY"** and in the boxes inside the question paper.

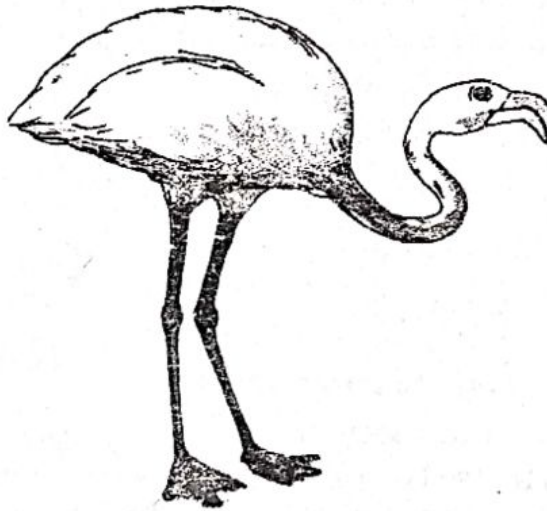
FOR EXAMINERS' USE ONLY		
Qn No.	MARKS	EXR'S NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

Turn Over

## SECTION A: 40 MARKS

1. Name the injury sustained when the ligament is twisted.  
\_\_\_\_\_
2. State any **one** cold blooded vertebrate that protects itself by withdrawing into its shell.  
\_\_\_\_\_
3. Give **one** way in which nimbus clouds support plant growth.  
\_\_\_\_\_
4. State any **one** way in which people acquire land to set up cattle farms.  
\_\_\_\_\_
5. Give **one** way in which crop farming improves the health of people.  
\_\_\_\_\_

The diagram below shows a bird. Study and use it to answer questions 6 and 7.



6. To which group of birds does the above belong?  
\_\_\_\_\_

7. What is the advantage of long legs to such a bird?  
\_\_\_\_\_  
\_\_\_\_\_

8. State the difference between volume and mass.  
\_\_\_\_\_  
\_\_\_\_\_

9. Give any **one** way people use energy from the sun.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. Which property of air is demonstrated when air fills in the balloon?

11. State **one** way in which spreading beddings under sunshine prevents parasites.

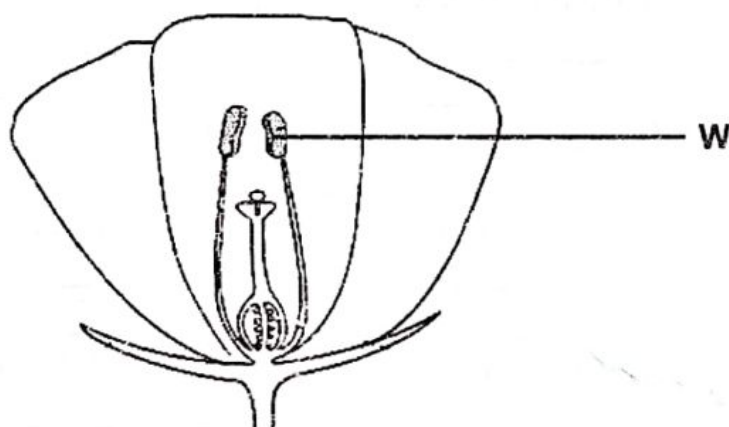
12. State any **one** way adolescents can manage their body changes.

13. Give any **one** sign of soil erosion on a school compound.

14. In which way is health education an important element of PHC?

15. State the reason for organising health parades in primary schools.

The diagram below shows a flower. Use it to answer questions 16 and 17.



16. Name the reproductive cells in animals that is similar to the one produced by part **W**.

17. Using a line segment with letter K, label the part that protects the flower at a bud stage.

18. State any **one** activity done to promote personal hygiene.

19. Which part of the human eye works like film in a camera?



20. How do lungs get rid of carbon dioxide from the body?

21. Give any **one** danger of chewing food hurriedly.

22. State **one** way convection is used at home.

23. State any **one** health service provided at a health centre.

24. Give any **one** anti-social behaviour common among schoolchildren.

25. Arrange the following organisms in the correct order of a food chain.  
goat  $\longrightarrow$  bacteria  $\longrightarrow$  lion  $\longrightarrow$  leaves

26. How does mulching help to control weeds?

27. What determines the brightness of an image in a pinhole camera?

28. State any **one** difference between river blindness and night blindness.

29. How can a health worker know that a child was immunized against polio?

30. Why is sweating an important activity to the body?

31. Name the vitamin deficiency that affects the skin.

32. At what age do most babies start developing the first set of teeth?

33. State any **one** practice in a school garden that will help to improve soil fertility.

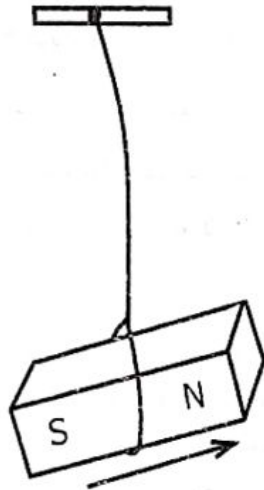
34. Apart from brain damage, give any other effect of excessive use of drugs of dependency.

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35. Give **one** use of a rack as a sanitary requirement.

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The diagram below shows property of a magnet. Use it to answer questions 36 and 37.



36. State the property of a magnet shown above.

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37. How is the above property useful to a pilot?

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38. State any **one** way of controlling nagana in an area.

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39. How are legumes different from other dicotyledonous plants?

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40. How can a bee farmer protect his head from bee stings during harvesting of honey?

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## SECTION B: 60 MARKS

41. a) Give any **two** characteristics that are common to a toad and a lizard.

i) \_\_\_\_\_

ii) \_\_\_\_\_

b) How is a lizard different from a toad in the way they reproduce?

\_\_\_\_\_

c) Name **one** other vertebrate that can be classified with a frog.

\_\_\_\_\_

42. The table below shows diseases that affect the reproductive system, their cause and signs. Complete correctly by filling the blank spaces.

Disease	Cause	Signs
i) _____	Bacteria	Painless sores appear on the penis or inside the vagina.
ii) Candidiasis	ii) _____	Discharge of bad smell from the vagina.
iii) Gonorrhoea	Bacteria	iii) _____
iv) _____	Virus	Excessive loss of weight within a short time.

43. a) Write down any **two** causes of food poisoning in our homes.

i) \_\_\_\_\_

ii) \_\_\_\_\_

b) Give any **one** sign of food poisoning.

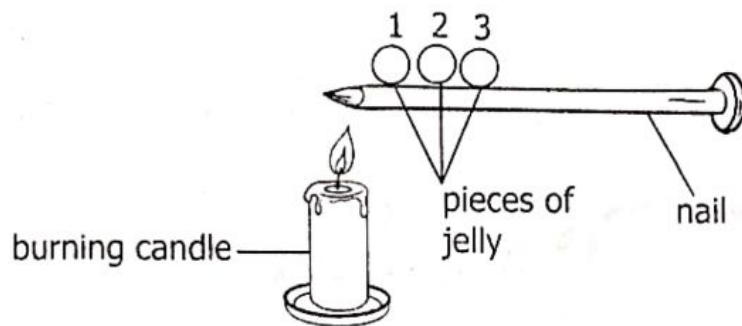
\_\_\_\_\_

c) Give any **one** way of safeguarding ourselves against food poisoning at home.

\_\_\_\_\_



44. a) The diagram below shows a nail with one end placed in a burning candle. Three pieces of jelly were placed on the nail as shown below. Use it to answer the questions that follow.



- a) Which of the jelly pieces will melt last?
- b) Give a reason to support your answer in (a) above.
- c) Give any **two** ways in which conduction of heat is useful to people.
- i) \_\_\_\_\_
- ii) \_\_\_\_\_
45. a) Give a reason why a magnet cannot attract copper metal.
- b) Give any **two** practices that can lead to the destruction of a magnet.
- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- c) State any way of protecting magnets from demagnetization.
46. a) Give any **two** ways in which crop rotation is important in crop growing.
- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- b) Apart from crop rotation, state any **two** ways of improving on soil fertility.
- i) \_\_\_\_\_
- ii) \_\_\_\_\_
47. a) Name any **one** agent of pollination.

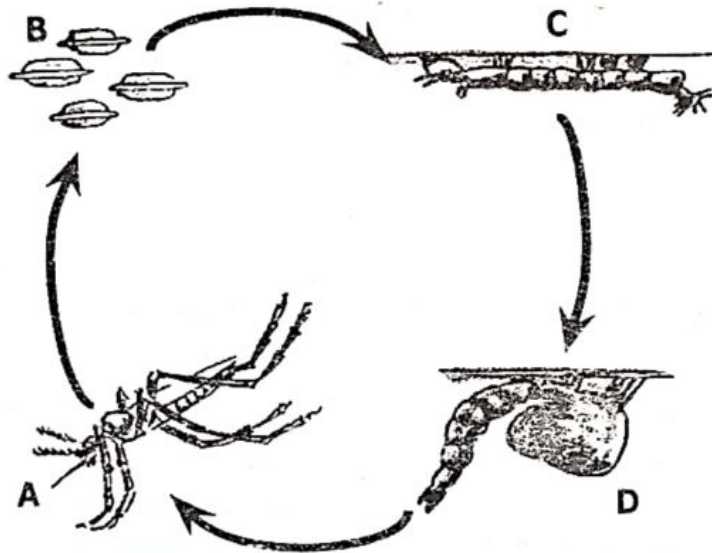
b) Why is the maize plant unable to carryout self pollination?

c) State any **two** characteristics of wind pollinated flowers.

i) \_\_\_\_\_

ii) \_\_\_\_\_

48. The diagram below shows the life cycle of a mosquito. Study and use it to answer the questions that follow.



a) Name the type of mosquito v/hose life cycle is shown above.

b) What disease is spread by the type of mosquito above?

c) Name stage **D**.

d) How can the above vector be controlled at stage **C**?

49. a) Write down any **two** local materials used for cleaning teeth.

i) \_\_\_\_\_

ii) \_\_\_\_\_

b) State **two** parts of the teeth brushed during cleaning of the teeth.

i) \_\_\_\_\_

ii) \_\_\_\_\_



50. The table below shows non-vertebrates in List **A** and the groups they belong in List **B**.

List A	List B
Housefly	Molluses
Crab	Myriapods
Millipede	Arachnids
Spider	Insects
	Crustaceans

Match correctly the non-vertebrates with the groups they belong in the spaces provided below.

- a) Housefly \_\_\_\_\_  
b) Crab \_\_\_\_\_  
c) Millipede \_\_\_\_\_  
d) Spider \_\_\_\_\_
51. a) In which way is a joint useful to people?  
\_\_\_\_\_  
\_\_\_\_\_

b) Name the type of movable joint that allows to and from movement.  
\_\_\_\_\_

c) Give **two** substances that help to reduce friction at a joint.

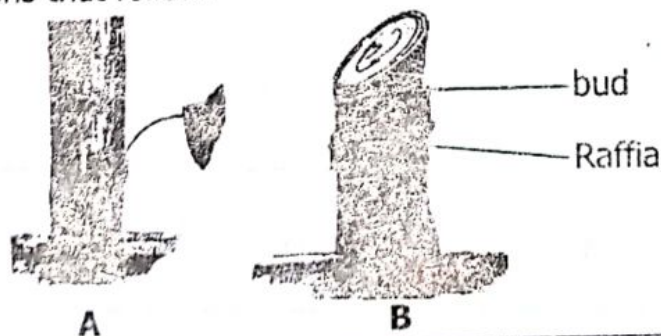
- i) \_\_\_\_\_  
ii) \_\_\_\_\_

52. a) State what happens to the mass and volume when water is frozen.

- i) Volume \_\_\_\_\_  
ii) Mass \_\_\_\_\_

b) Explain how density affects different objects when placed in water?  
\_\_\_\_\_  
\_\_\_\_\_

53. The diagram below shows a method of plant propagation. Study and use it to answer the questions that follow.



a) Identify the method of vegetative propagation shown above.

b) What is the importance of raffia wrapped round the stem?

c) Give any **one** crop propagated as shown above.

d) Apart from the above, give **one** vegetative method of propagation.

54. a) State any **two** characteristics that make tomato plants to be dispersed by animals.

i) \_\_\_\_\_

ii) \_\_\_\_\_

b) Mention **two** agents of seed dispersal besides animals.

i) \_\_\_\_\_

ii) \_\_\_\_\_

55. a) Find the angle of reflection if the reflecting surface makes an angle of  $55^\circ$  to the reflected ray. (3 marks)

b) State any **one** law of reflection.

END