

**MANTLE DAY AND BOARDING PRIMARY SCHOOL –LIRA**  
**PRE-PRIMARY LEAVING EXAMINATION SET XVIII, 2023**  
**INTEGRATED SCIENCE**

*Time Allowed: 2 hours 15 minutes*

Random No.						Personal No.		

**Candidate's Name:** .....

**Candidate's Signature:** .....

**District ID No:**

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**Read the following instructions carefully:**

- 1.** Do not write your **school** or **district name** anywhere on this paper.
- 2.** This paper has two sections: **A** and **B**. Section **A** has **40** questions and Section **B** has **15** questions. The paper has **16 printed pages** altogether.
- 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 ink. Any work written in pencil other than graphs and diagrams will **not** be marked.
- 5.** Unnecessary **changes** in your work and handwriting that can not easily be read may lead to **loss** of marks.
- 6.** Do **not** fill anything in the table indicated: **"For Examiners' Use Only"** and 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		

## SECTION A : 40 MARKS

*Questions 1 to 40 carry one mark each.*

1. Give any one non infectious disease of the human respiratory system.

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2. How does deforestation cause soil erosion?

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3. Why should school children put on shoes when walking in wet places?

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4. Give any one way of preventing bacterial diseases in the environment.

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5. What happens to a beam of light when it falls on a concave lens?

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6. Why do adolescent boys usually experience wet dreams?

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7. State the benefit of culling on a poultry farm.

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8. What causes fainting among human beings?

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9. Why is the rain gauge usually put in an open space?

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10. Which breed of cattle produces the highest amount of milk?

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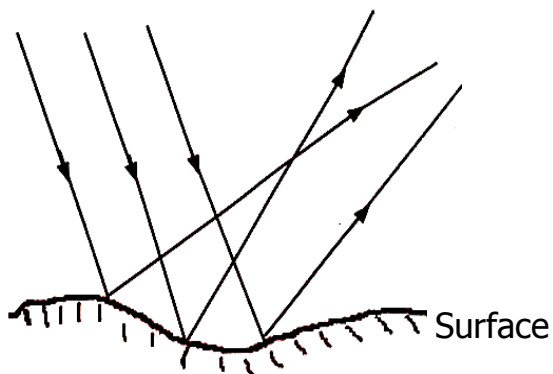


11. How do frogs breathe when in water?

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The diagram below shows reflection of light off the surface. *Study and use it to answer questions that follow.*



12. Name the type of reflection shown in the diagram above.

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13. Give any one characteristic of surfaces which give the above reflection.

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.....

14. Mention any one animal fibre in the environment.

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.....

15. How is rusting similar to incubation as changes in the environment?

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16. Apart from making food, give any one other function of leaves to a plant.

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17. Which diarrhoeal disease involves passing out stools containing blood stains?

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18. Why do crop farmers put rat guards on their granaries?

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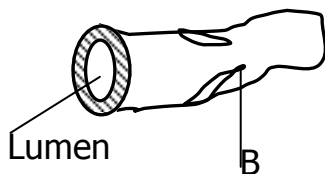
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19. State the use of screws to a carpenter.

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The diagram below shows a blood vessel. *Study and use it to answer questions 20 and 21.*



20. Which type of blood vessels is shown in the diagram above?

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21. State the role of the structures marked **B** on the diagram above.

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22. Why should the feeding trough be left swinging in a poultry house?

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23. Give any one benefit of seed dispersal in the environment.

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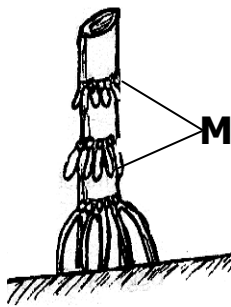
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24. How do animals depend on air in the environment?

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The diagram below shows part of a plant stem. *Study and use it to answer questions 25 and 26.*



25. Name the roots marked **M** on the diagram above.

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.....

26. Why do some plants develop roots marked **M** at flowering stage?

.....

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27. Give one way of preventing diseases which affect the human skeleton.

.....

.....

28. Which type of thermometer measures human body temperature?

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29. Write down one danger of wind in the environment.

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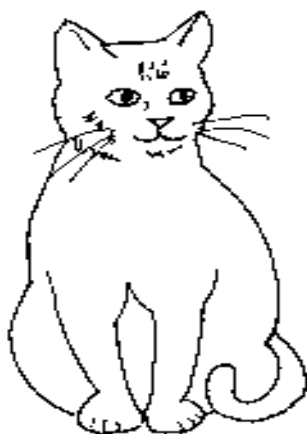
30. How does pouring oil on stagnant water reduce malaria infection?

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The diagram below shows an organism in the environment. *Study and use it to answer questions 31 and 32.*



31. Name the group of mammals to which the above animal belongs.

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32. How is the above organism adapted to feeding on flesh?

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33. Why should petroleum products be kept away from fire?

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34. Name one solute used to make Oral Rehydration Solution.

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35. How are human lungs similar to the skin in terms of their function?

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36. How does washing and ironing of bed sheets promote human health?

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37. Why does a bar magnet freely suspended in air rest in North-South direction?

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38. Why are babies recommended to be weaned at six months?

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39. State any one feature of dairy breeds of cattle.

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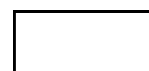
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40. What danger does eating contaminated food cause to the human body?

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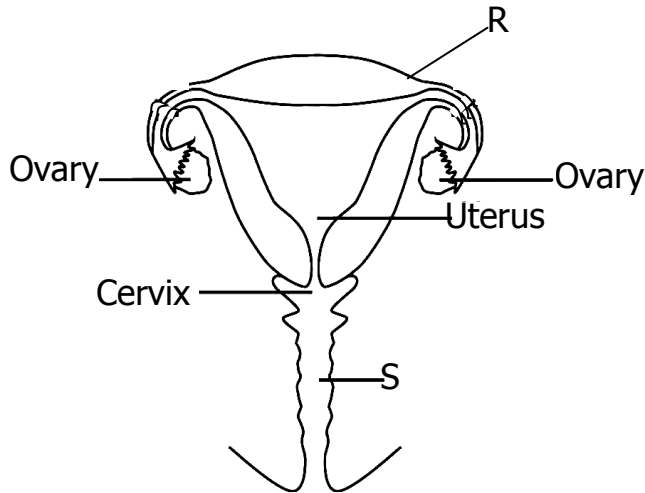
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## SECTION B: 60 MARKS

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

The diagram below shows female reproductive system. *Study and use it to answer questions that follow.*



41. (a) Name the parts marked;

(i) **R** .....

.....

(ii) **S** .....

.....

(b) How is the hormone produced by the ovary important in the human body?

.....

.....

(c ) Give any one function of the part marked **S** in the human reproductive system.

.....

.....

42. (a) Which plant process requires water and carbon dioxide?

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.....



(b) How do plants benefit from the process named above?

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.....

(c ) Give two uses of soil to plants.

(i).....

.....

(ii).....

.....

43. (a) Which instrument is used to see germs in the sample given?

.....

.....

(b) What is the danger of germs in the environment?

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.....

(c ) Give any two types of germs in the environment.

(i).....

.....

(ii).....

.....

44. (a) Which type of lens is found in the human eye?

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(b) How is the role of the lens and the aqueous humour similar?

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(c ) Give any two characteristics of images formed in the human eye.

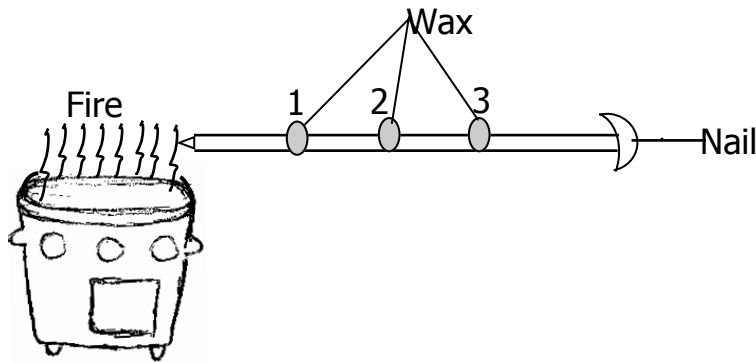
(i).....

.....

(ii).....

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*Study the diagram below and use it to answer questions that follow.*



45. (a) Which wax melts first during heating?

.....

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

.....

.....

(c ) How does heat from the fire reach the waxes in the experiment above?

.....

(d) Apart from the experiment above, give any one method of heat transfer through matter.

.....

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46. (a) State any two effects of sexual deviations among human beings.

(i).....

.....

(ii).....

.....

(b) Apart from sexual deviations, give any two social problems among the youth.

(i).....

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(ii).....

.....



47. (a) State the importance of Primary Health Care (P.H.C) in the community.

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(b) Which element of Primary Health Care teaches community members on how to solve their health problems?

.....

.....

(c ) Give any two suitable health lifestyles.

(i).....

.....

(ii).....

.....

48. (a) Which type of joint allows maximum movement in the human body?

.....

.....

(b) Give two parts of the body where plane joints are found.

(i).....

.....

(ii).....

.....

(c ) Why are plane joints called movable joints?

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49. (a) How does boiling make water safe for drinking?

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(b) Give any two ways boiled water can get re-contaminated.

(i).....

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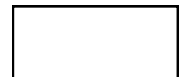
(ii).....

.....

(c ) Why is distilled water not good for drinking?

.....

.....



50. (a) Which plant in the environment is used to make cigarettes?

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.....

(b) Why is it dangerous to smoke in public?

.....

.....

(c ) Give two reasons why people smoke.

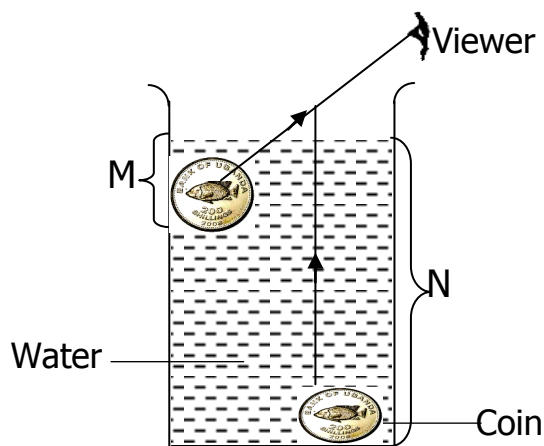
(i).....

.....

(ii).....

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The diagram below shows a coin dropped in a container full of water. *Study and use it to answer questions that follow.*



51. (a) Name the depths marked;

(i) **M** .....

.....

(ii) **N** .....

.....

(b) Why does the coin appear nearer to the surface of water than its actual position?

.....

.....

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(c ) What causes light to behave differently as it travels in different media?

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52. (a) Apart from the queen bee, give two types of bees in a hive.

(i).....

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(ii).....

.....

(b) What is the role of the queen bee in the hive?

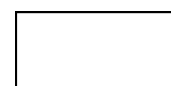
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(c ) Name the part of the hive where the queen be lays eggs.

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.....



53. (a) Which energy resource is got from boiling water?

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(b) Give any two ways human beings use the energy resource named above.

(i).....  
.....

(ii).....  
.....

(c ) Apart from the resource named above, give one more energy resource from water.

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54. The table below shows essential drugs and their uses.

	<b>Drug (s)</b>	<b>Use (s)</b>
(i)	Birth control pills	Prevent immunisable diseases
(ii)	Vaccines	Control diseases
(iii)	Panadol	Prevent conception
(iv)	Coartem	Relieve pain

*Select from the table above the correct use of the drug and write in the space below.*

(i) Birth control pills .....  
.....

(ii) Vaccines .....  
.....

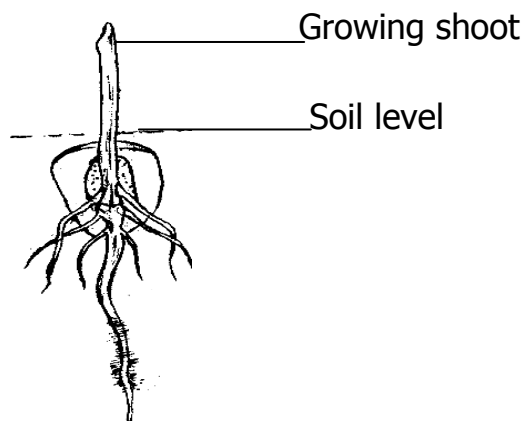
(iii) Panadol .....

.....

(iv) Coartem .....

.....

The diagram below shows a germinating seed. *Study and use it to answer questions that follow.*



55. (a) Which type of germination is shown in the diagram above?

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(b) Why do germinating seeds develop roots faster than the shoot system?

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(c) Give any two seeds which undergo the type of germination shown above.

(i).....

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(ii).....

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*END*