



**MBALE CITY PRIMARY SCHOOLS' HEAD TEACHERS' ASSOCIATION ACADEMIC BOARD**  
 **PRIMARY LEAVING MOCK III EXAMINATION**  
 **2023**  
 **INTEGRATED SCIENCE**

**Time Allowed:** 2 Hours 15 Minutes

	Random No.						Personal No.		
Index No.									

Candidate's Name: .....

Candidate's Signature: .....

School Random No: .....

District ID: .....

**READ THE FOLLOWING INSTRUCTIONS CAREFULLY:**

1. This paper has two sections: **A** and **B**.
2. Section **A** has **40** questions (**40 Marks**).
3. Section **B** has **15** questions (**60 Marks**).
4. Attempt all questions in both sections. All answers to both sections **A** and **B**. must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or **ink**. Only diagrams and graph work must be done in **pencil**.
6. Unnecessary **alteration/crossing** of work will lead to loss of marks.
7. Any **handwriting** that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated:  
**"FOR EXAMINER'S USE ONLY"**

**For Examiner's Use Only;**

PAGES	MARKS	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

**Please turn over**

## SECTION A : 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name **one** type of bees without an ovipositor.

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2. Apart from protozoa, state any other type of germs.

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3. Mention the role of chlorophyll to plants during photosynthesis.

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4. Name any **one** living thing which produces its own light.

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**The diagram below is of a house. Study and use it to answer questions 5 and 6.**



5. Give any **one** role of part marked **A** on a living house.

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6. Why are the structures labelled **F** on the house above placed above the windows and doors?

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7. State the method of conserving soil moisture which involves the use of dry plant materials.

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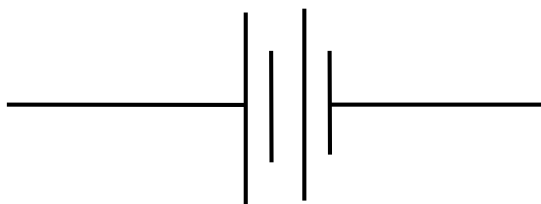
8. What is the importance of mucus in the nose?

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9. How do plants avoid overcrowding in any given place?

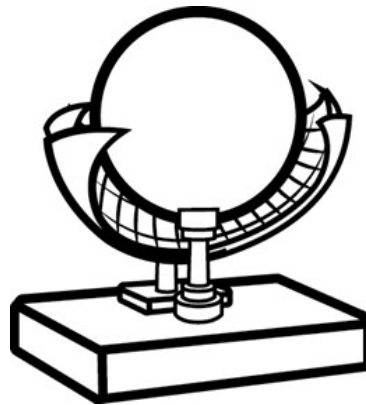
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**The diagram below is of an electric symbol. Study and use it to answer question 10.**



10. What does the symbol above stand for in an electric circuit?
- \_\_\_\_\_
11. Name the process that enables air to circulate in the house.
- \_\_\_\_\_
12. What is the importance of seed dressing in crop farming?
- \_\_\_\_\_
13. Apart from cleaning the body, give any **one** other activity done to promote personal hygiene.
- \_\_\_\_\_
14. Write the effect of rusting on metallic tools.
- \_\_\_\_\_
15. State the milking method used by cattle keepers on large dairy farms.
- \_\_\_\_\_
16. Mention **one** health practice that helps to keep body muscles strong and healthy.
- \_\_\_\_\_
17. An infant had little brownish hair and a swollen moon face. Which deficiency disease was the infant suffering from?
- \_\_\_\_\_
18. Name the type of leaf venation in the bean leaf.
- \_\_\_\_\_
19. State any **one** effect of abortion as related to the teenage pregnancy.
- \_\_\_\_\_

The diagram below is of a weather instrument. Study and use it to answer question 20.



20. How useful is the weather instrument drawn above at a weather station?

21. Name the component of air used by legumes to manufacture proteins.

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22. Give the importance of condensation in the environment.

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23. Apart from the skin and kidney, name any **one** other excretory organ.

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24. Apart from the earth, name the other example of a natural magnet.

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25. Which type of soil has the ability to retain water much longer than the other types?

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26. How is reproduction in a frog similar to that in a monkey?

---

27. How is the role of the retina in the eye similar to that of the film in a camera?

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28. What is the use of the hygrometer at a weather station?

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29. Which element of PHC ensures that lives of pregnant mothers, unborn babies and breastfeeding mothers are safe?

30. Mention any **one** respiratory disease worsened by smoking tobacco in human beings.

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31. How is refrigeration useful in the preservation of food?

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32. Name any **one** type of natural fertilisers.

---

33. Why are people able to see their faces in plane mirrors?

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34. Name the root tuber which is a good source of vitamin A.

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35. State any **one** way of preventing cholera in your school.

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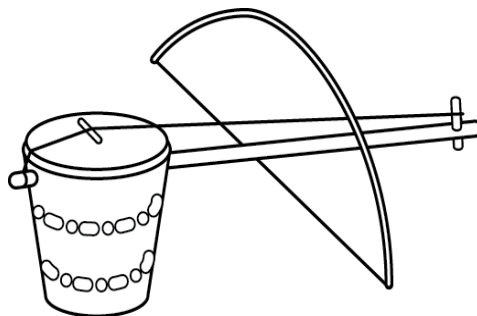
36. How does the use of a wheelbarrow simplify a builder's work?

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37. How do adolescents safeguard themselves from contracting Sexually Transmitted Diseases?

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**The diagram below is of a musical instrument. Study and use it to answer question 38.**



38. What determines the pitch of sound produced by the instrument above?

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39. State the type of static electricity in nature.

---

40. How is propagation of onions similar to that of garlic?

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**SECTION B: 60 MARKS**



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

41. a) Give any **one** reason why sick people sometimes do not want to eat food.

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b) Why are sick people grouped under vulnerable groups of people?

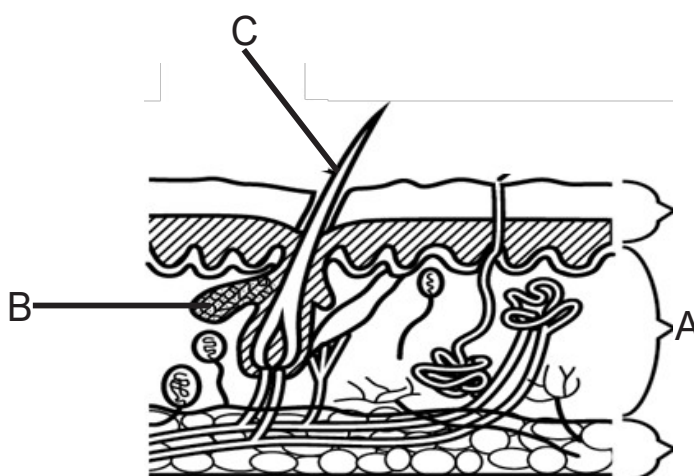
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c) Why do the elderly need the following food values in their diet?

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

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

42. **The diagram below is of the human skin.** *Study and use it to answer the questions that follow.*



a) Name the layer marked with letter **A**.

\_\_\_\_\_

b) Give the function of parts labelled with letters **B** and **C**.

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

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

c) Which process enables the skin to regulate temperature on a hot day?

\_\_\_\_\_

43. a) In which **two** ways can correct posture of the body be helpful to the muscular and skeletal systems?



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

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

b) How can the following muscular - skeletal diseases be prevented?

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

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

44. a) Give any **two** activities involved in preparing the land before planting.

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

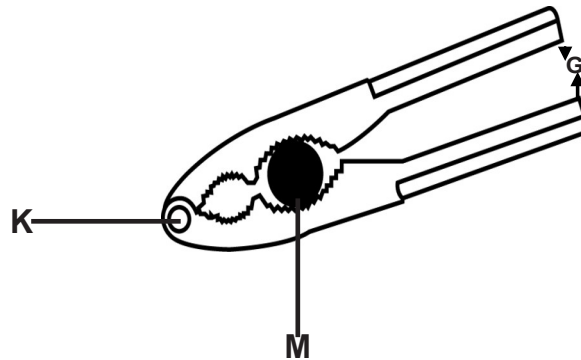
ii) \_\_\_\_\_

b) Mention any **two** garden tools crop farmers need to prepare their land first before planting.

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

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

45. The diagram below is of a simple machine. Use it to answer the questions that follow.



a) Name the part of a lever represented by position:-

i) **M** \_\_\_\_\_

ii) **G** \_\_\_\_\_

b) To which class of levers does the above machine belong?

\_\_\_\_\_

c) Give a reason to support your answer in (b) above.

\_\_\_\_\_

46. Complete the table below correctly.

Vector	Germ
snail	(i) _____
(ii) _____	Trypanosomes
blackfly	(iii) _____
(iv) _____	plasmodia





47. a) Which accident leads to blockage of the trachea by a foreign body?

\_\_\_\_\_

b) Mention **two** causes the accident mentioned in 47(a) above.

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

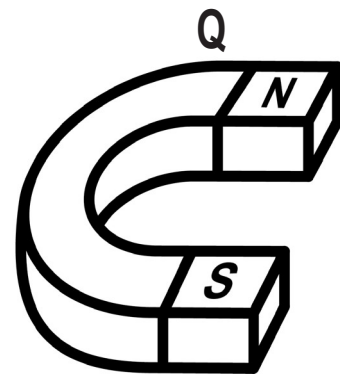
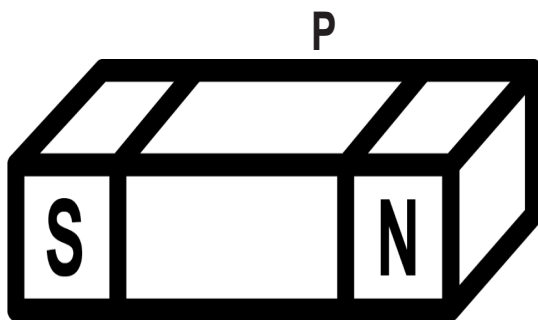
ii) \_\_\_\_\_

c) How can a person with the above accident be helped?

\_\_\_\_\_

\_\_\_\_\_

48. **Below are types of artificial permanent magnets. Study and use them to answer the questions that follow.**



a) Name the permanent magnet labelled:-

i) **P** \_\_\_\_\_

ii) **Q** \_\_\_\_\_

b) Name **one** example of a metal used for making permanent magnets.

\_\_\_\_\_

c) State the effect of too much heat to magnets.

\_\_\_\_\_

49. a) Give any **one** function of these parts to plants;

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

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

b) State any **one** difference between epigeal and hypogeal germination.

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c) Give the reason why the root system develops first in a germinating seed.

---

50. a) Give the meaning of the term brooding as used in poultry.

---

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b) State **two** disadvantages of natural brooding in poultry.

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

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

c) What name is given to a place where chicks are kept?

---

51. a) Which part of a fish performs the following functions?

i) detecting sound waves in water \_\_\_\_\_

---

ii) protects the gills from external harm \_\_\_\_\_

---

b) How is a streamlined body useful to fish?

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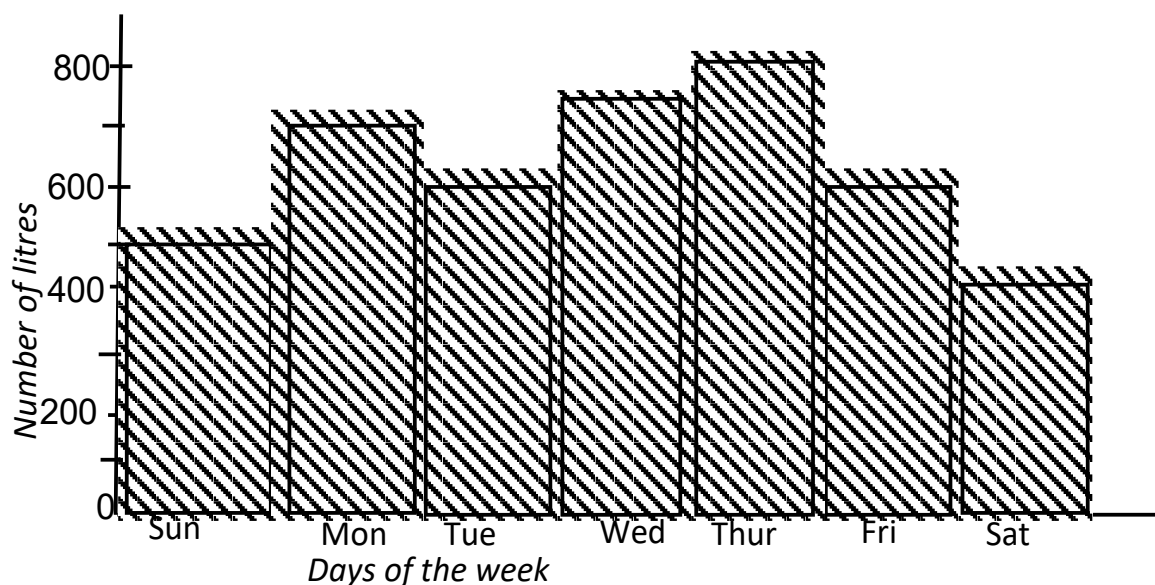
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c) Give **one** way fish protect themselves against their enemies.

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52. The graph below shows milking records made on Musa's cattle farm for one week. Study and use it to answer the questions that follow.



Questions:

a) On which day was the highest amount of milk recorded?

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b) Name the type of cattle Musa keeps on his farm.

---

c) State any **one** reason that would have resulted to the drop in the amount of milk collected on Friday and Saturday.

---

d) Give a possible solution for the drop in milk production recorded on Friday and Saturday.

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53. a) Name any **two** examples of mineral deficiency diseases.

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

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

b) Write any **two** reasons for feeding on a balanced diet.

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

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

54. Match the terms in list **A** with their meanings in list **B**.

**List A**

mechanical advantage

pulley

work done

lever

i) mechanical advantage

ii) pulley

iii) work done

iv) lever

**List B**

a freely rotating wheel with a grooved rim

a stiff rod that turns freely on a turning point

the ratio of load to effort

the product of force and distance moved in the direction of force

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

55. a) Mention **two** groups of essential drugs.

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

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

b) State any **two** factors that a health worker considers when prescribing drugs to a patient.

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

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

