

MBARARA CITY EXAMINATIONS BOARD

PRIMARY LEAVING MOCK ASSESSMENT, 2024

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 way drought cause food insecurity in an environment.

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2. Why does tapeworm infection cause weight loss in babies?

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3. How does yeast reproduce?

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4. Give the reason why farmers should separate a mother doe from other rabbits.

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5. State the function of a gum to the human tooth.

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6. What causes melting of ice?

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7. How can diseases spread by houseflies be controlled in the environment?

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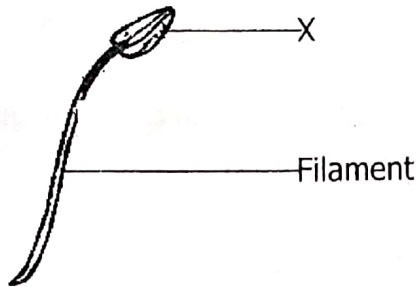
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8. Give any one way plants maintain the quality of air in the environment.

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The diagram below shows part of a flower. *Study and use it to answer questions 9 and 10.*



9. Name the part of a flower shown in the diagram above.

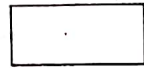
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10. State the function of the part marked **X** to a flower.

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11. Mention the role of enzymes in the digestive process.

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12. Why should a first aider loosen all tight clothes of a fainting casualty?

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13. How does debeaking control vices among poultry?

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14. Why is the human skin able to keep moist?

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15. What is the difference between sand soil and loam soil in terms of drainage?

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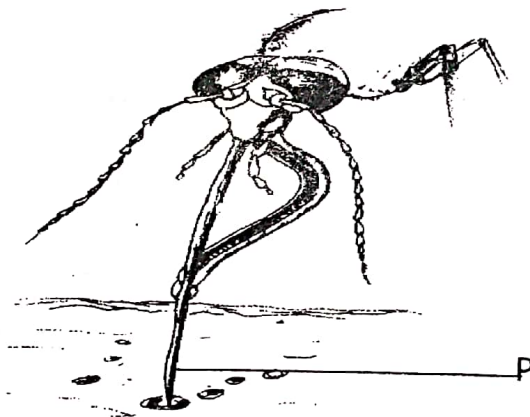
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16. Write down any one way of increasing the strength of an electromagnet.

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The diagram below shows a mosquito. *Study and use it to answer questions 17 and 18.*



17. Name the part of a mosquito marked **P** on the above diagram.

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18. State the use of the part marked **P** to a mosquito?

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19. How do echoes help pilots?

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20. Why does blood go to the liver during circulation?

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21. Apart from cassava, give any one crop which stores food in the underground roots.

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22. State one way in which disease vectors are dangerous to human beings.

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23. How do essential drugs promote human health?

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24. Which system of the human body is affected by bronchitis?

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25. Mr. Moses used 40 kgF to raise 120 kgF using a crowbar. Calculate the mechanical advantage of the crowbar.

26. How does proper disposal of human excreta control diarrhoeal diseases?

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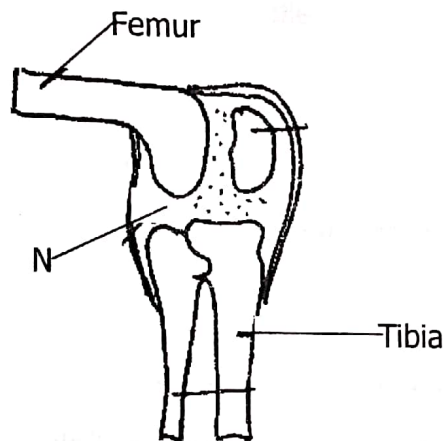
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27. Which equipment uses wind energy to generate electricity?

28. Why do dairy cattle develop big udders?

29. Which method is suitable for preparing green leafy vegetables at home?

The diagram below shows a type of joint. *Study and use it to answer questions 30 and 31.*

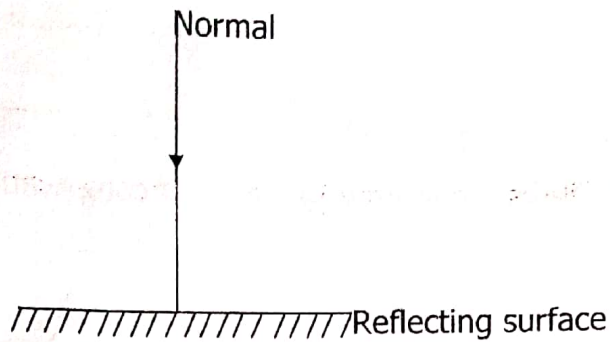


30. Name the type of joint found at part marked **N**.

31. State the function of the joint shown in the diagram above?

32. How does addition of ash maintain the quality of an ecosan latrine?

Study the diagram below and use it to answer questions 33 and 34.



33. Complete the ray diagram above by showing the reflected ray.

34. What is the size of the angle of incidence in the diagram above?

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35. Why are wet clothes displayed in the sunshine able to dry faster?

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36. Give any one way human beings use animal dung.

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37. Why are bean seeds able to be dispersed by self explosion?

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38. What causes truancy among school pupils?

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39. Why is BCG vaccine administered to babies at birth?

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40. Give the reason why teenage mothers are likely to get a lot of complications during labour.

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SECTION B: 60 MARKS

(Questions 41 to 55 carry four marks each.)

41. (a) Give any two places where near drowning takes place.

(i).....

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(ii).....

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(b) What causes near drowning in the human body?

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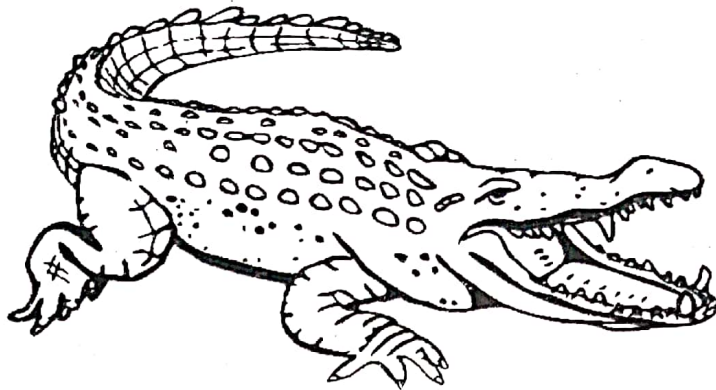
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(c) How does throwing of a floating object save a near drowned casualty?

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



42. (a) Name the group of vertebrates to which the above organism belongs.

.....

.....

- (b) Why is the above organism called a cold blooded animal?

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- (c) Give any two organisms which belong to the same group as the one shown above.

(i).....

.....

(ii).....

.....

43. Match processes with their meanings in the space below.

	Process	Meaning
(i)	Gestation	Stage of sexual maturity
(ii)	Copulation	Time taken from fertilisation to giving birth
(iii)	Adolescence	Release of sperms into the vagina
(iv)	Puberty	Transition from childhood to adulthood

(i) Gestation

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(ii) Copulation

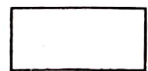
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(iii) Adolescence

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(iv) Puberty

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44. (a) Name two viral diseases which affect cattle.

(i).....

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(ii).....

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(b) Which disease makes cattle to move in circles?

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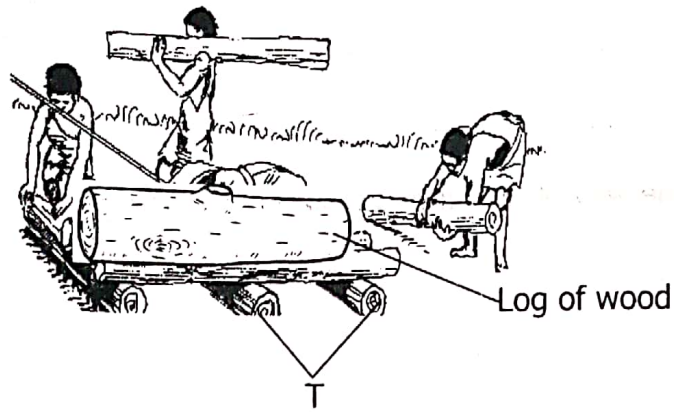
(c) Give any one sign of a sick cow.

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



45. (a) Name the structures marked **T** on the diagram above.

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(b) State the use of the structures marked **T** when pushing the log.

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(c) Give any two advantages of friction in the environment.

(i).....

.....

(ii).....

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46. (a) State any two similarities between rusting and respiration.

(i).....

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(ii).....

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(b) How does rusting affect metallic tools?

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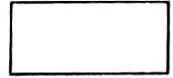
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(c) Give any one way of preventing rusting of metals.

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47. (a) Why are leguminous plants able to fix nitrogen into the soil.



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(b) How does application of organic fertilizers preserve the quality of the soil?

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(c) Give any two organic fertilizers used in crop gardens.

(i).....

.....

(ii).....

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48. (a) State the function of fire during distillation of alcohol.

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(b) How do distillers ensure effective condensation of the vapour during distillation?

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(c) Give any two physical processes involved in distillation of alcohol.

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

49. (a) Mention any two plants propagated by suckers.

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

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

(b) Which method of reproduction involves joining the shoot of one plant to the trunk of another plant?

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(c) Why do we always cut the shoot of a banana sucker before it is planted?

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50. (a) How does breastfeeding control birth in mothers?

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(b) Apart from controlling birth, give any two benefits of breastfeeding to a mother.

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

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

(c) Why is breast milk considered the best food for babies?

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51. (a) Which substance dissolves in a solvent?

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(b) Why is water called a universal solvent?

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(c) Give any two substances which dissolve in water.

(i).....

.....

(ii).....

.....

52. (a) Name the main source of energy in a food chain.

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(b) Why are herbivorous animals called primary consumers in the food chain?

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(c) State the feeding relationship between the following organisms in the environment;

(i) Eagle and a chick.

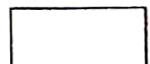
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(ii) Bacteria and lion.

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Use the table below to answer the questions that follow.

X	Y	Z
Liver	Rennin	Gastric juice
Pancreas	Trypsin	Bile
Stomach		

53. (a) Name the human body system to which the organs in list **X** belong.

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(b) State the function of rennin in the human body.

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(c) Which substance from list **Z** contains no enzyme?

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(d) Give any one enzyme that can be added to list **Y**.

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54. (a) What is incubation?

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(b) Why does a broody hen regularly turn the eggs with the beak during incubation?

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(c) Give any two conditions needed for an egg to hatch.

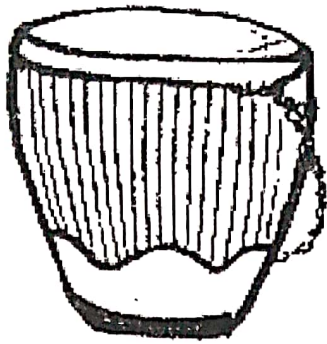
(i).....

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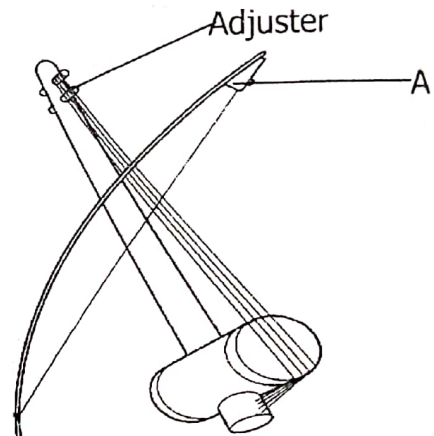
(ii).....

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The diagrams below shows musical instruments: *Study and use them to answer the questions that follow.*



R



S

55. (a) Name the group of musical instruments to which the above instruments belong;

(i) **R**

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(ii) **S**

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(b) What is the function of the part marked **A** on diagram **S**?

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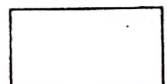
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(c) How does instrument **S** produce sound when played?

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END