

MBARARA CITY EXAMINATIONS BOARD

PRIMARY LEAVING MOCK EXAMINATION, 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 one use of claws to a rabbit.

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2. Write down one component of the biological environment.

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3. Name one organ of the human body located in the chest cavity.

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4. How does amplitude affect sound produced by a musical instrument?

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5. Give any one way of preventing HIV /AIDs.

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6. Why is transplanting usually carried out in the evening?

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7. How do clouds affect the environment?

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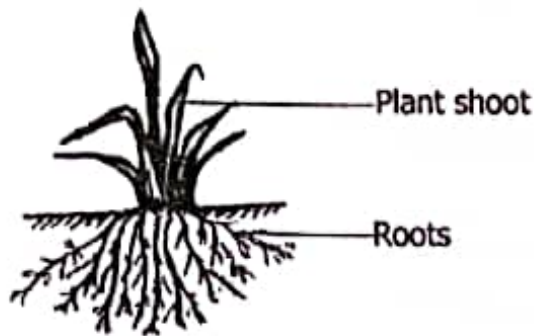
8. What is the difference between heat and temperature?

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The diagram below shows plant roots. *Study and use it to answer questions 9 and 10.*



9. Which type of root system is shown in the diagram above?

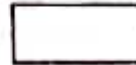
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10. Give one plant with the root system named above.

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11. How do shorter plants benefit from taller plants in the same habitat?

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12. Which waste product is removed from the human body by the skin?

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13. Name the second stage in the life cycle of a cockroach.

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.....

14. Why should human beings and animals live in separate houses?

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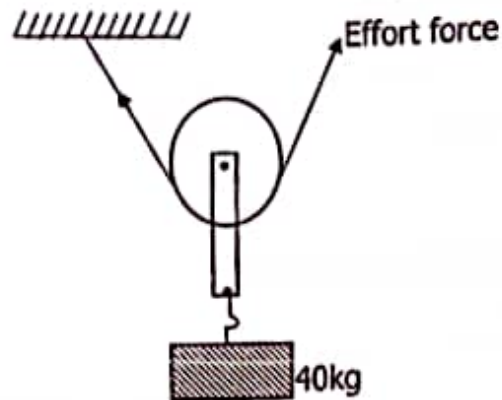
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15. State the type of joints found in the human skull.

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The diagram below shows a simple machine. *Study and use it to answer questions 16 and 17.*



16. Name the simple machine shown in the diagram above.

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17. How much effort is used to lift 40kg using the above machine?

18. What is the danger of over grown hair on the human body?

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19. Give one similarity between a bee and an octopus.

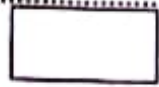
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20. How is water vapour important in the atmosphere?

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21. State the function of a razor blade when giving first aid.



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22. Give one method cattle farmers use to feed their calves.

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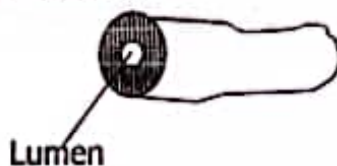
23. Write down one factor which affects the rate of food consumption in an area.

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24. Why is it dangerous to leave stoves with glowing charcoal in a house when sleeping?

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.....

The diagram below shows a blood vessel. *Study and use it to answer questions 25 and 26.*



25. Name the blood vessel shown in the diagram above.

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.....

26. State the function of the above blood vessel in the human body.

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27. How are termites useful in the environment?

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28. Why is the earth called a magnet?

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29. State the benefit of clearing tall bushes around homes.

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30. Which gas occupies the least percentage in air?

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31. Why does air breathed out of the human body contain more carbon dioxide?

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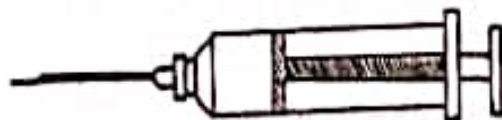
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32. How are bacteria similar to fungi in their way of feeding?

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The diagram below shows a medical equipment. *Study and use it to answer questions 33 and 34.*



33. Name the equipment shown in the diagram above.

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34. What is the use of the equipment named above during immunisation?

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35. Why is the top layer of the soil able to support plant growth?

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36. Which type of change helps living organisms to multiply and increase their numbers?

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37. What happens when the earth moves between the sun and the moon in a straight line?

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38. Write down one sign of a sick goat.

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39. Give one type of body disability among human beings.

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40. Why do crop farmers dig ditches in their gardens?

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SECTION B: 60 MARKS

(Questions 41 to 55 carry four marks each.)

41. (a) Give two examples of plant fibres.

(i).....

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(ii).....

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- (b) Write down two ways human beings use plant fibres in the environment.

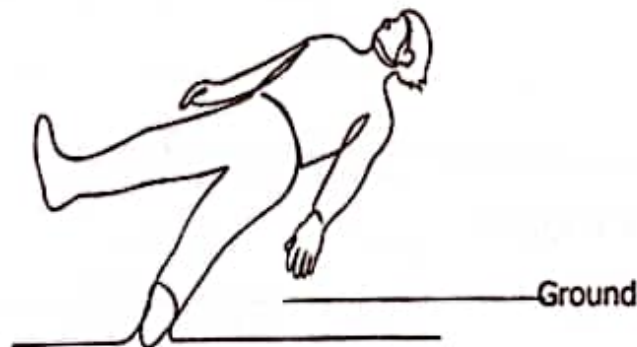
(i).....

.....

(ii).....

.....

The diagram below shows the human body lying on the ground. *Study and use it to answer questions that follow.*



42. (a) Name the body condition which makes victims to be lain as shown in the diagram above.

.....

.....

- (b) Why should a casualty be lain as shown in the diagram above?

.....

.....

(c) Give two other ways of saving the life of the above casualty.

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

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

43. (a) State two chemicals used to treat drinking water.

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

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

(b) Write down two disadvantages of treating drinking water using chemicals.

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

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

44. (a) Which method of family planning involves surgical cutting and sealing of sperm ducts?

.....
.....

(b) How do condoms help in child spacing?

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.....

(c) Give two disadvantages of artificial methods of family planning.

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

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

45. (a) Give two examples of mineral deficiency diseases in the human body.

(i).....

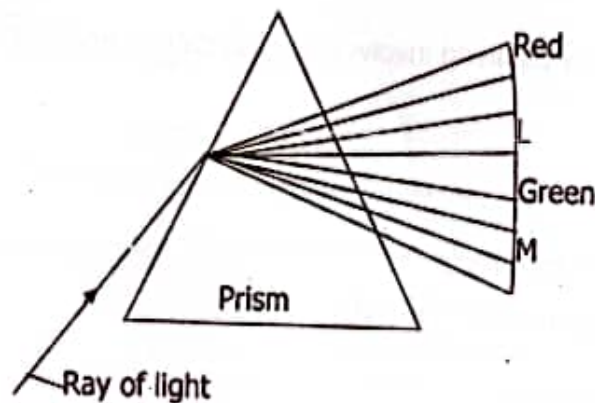
(ii).....

(b) Write down two sources of mineral salts in the human diet.

(i).....

(ii).....

The diagram below shows a white ray of light through a prism. *Study and use it to answer questions that follow.*



46. (a) Name the colours marked;

(i) **L**

(ii) **M**

(b) State the effect of the prism on the white ray of light.

(c) Name the form of light spectrum in nature.



47. (a) Name the process which leads to production of biogas in a biogas digester.

(b) What is the role of anaerobes in production of biogas?

(c) Give two materials used to produce biogas.

(i).....

(ii).....

48. (a) What causes constipation among human beings?

(b) How does talking with a mouth full of food dangerous to the human body?

(c) Give two ways of keeping the digestive system in a good working condition.

(i).....

.....

(ii).....

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.....

The diagrams below show animals in the environment. *Study and use them to answer questions that follow.*



49. (a) Name the group of mammals to which each of the following animals belong;

(i) **P**

.....

(ii) **Q**

.....

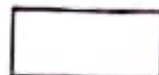
(b) Give two similarities between animal **P** and animal **Q**.

(i).....

.....

(ii).....

.....



50. Match items in A with those in B correctly.

	A	B
(i)	Health education	Helps the government to plan for health services
(ii)	Demography	Helps people to know how to solve health problems
(iii)	Child to child	Teaches people about their health
(iv)	Healthy survey	Older children teach young children health habits

(i) Health education

.....

.....

(ii) Demography

.....

.....

(iii) Child to child

.....

.....

(iv) Health survey

.....

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51. (a) Which diarrhoeal disease involves passing out stools with blood?

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(b) Give two health habits which reduce diarrhoeal diseases in your community.

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

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

(c) How does burning rubbish in a rubbish pit reduce diarrhoeal diseases in our community?

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.....

52. (a) Which structures enable black jack seed to attach on the bodies of animals?

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.....

(b) How are passion fruit seeds able to be dispersed by animals?

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(c) Give two examples of seeds dispersed by wind.

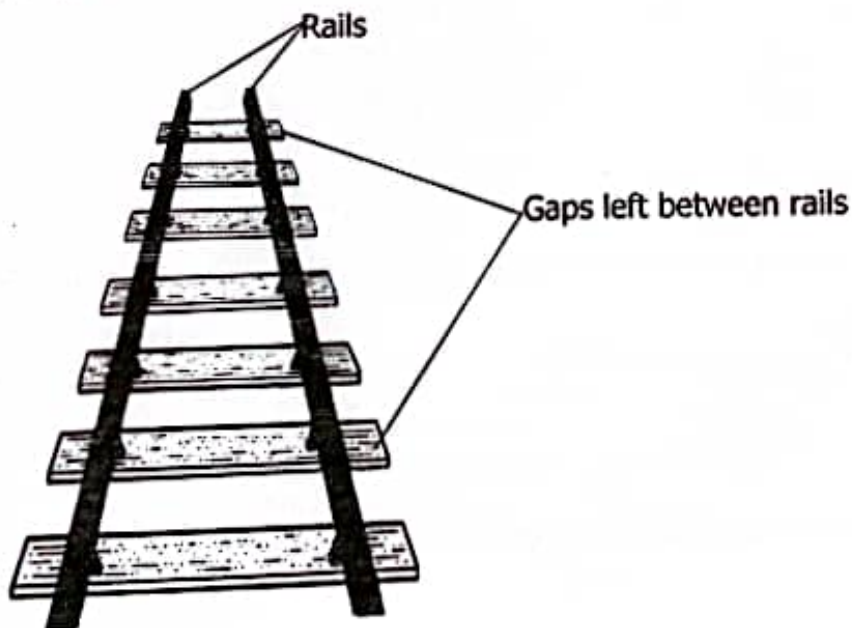
(i).....
.....

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

53. Fill in the missing information in the table below

Disease (s)	Cause (s)	Way of transmission
Trachoma	(i).....	Houseflies
(ii).....	Plasmodia	Female anopheles mosquito
Ring worm	(iii).....	Sharing clothes
HIV/AIDS	HIV	(iv).....

The diagram below shows constructed railway line. *Study and use it to answer questions that follow.*



54. (a) Why do engineers leave gaps between rails as shown in the diagram above?

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(b) What happens to the rails when heated?

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(b) Give two other effects of heat on matter.

(i).....

.....

(ii).....

.....

55. (a) Name two poisonous substances found at home.

(i).....

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(ii).....

.....

(b) How does taking plenty of fluids help to save the life of a poisoned casualty?

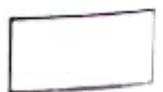
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(c) Give one sign of poisoning among human beings.

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