

MASAKA CITY EXAMINATIONS BOARD

MOCK EXAMINATION - 2024

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

INDEX NUMBER	RANDOM NUMBER						PERSONAL NUMBER		

Candidate's Name:

Candidate's Signature:

School Random Number:

Read the following instructions carefully:

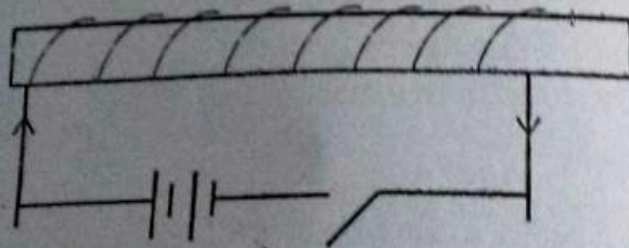
1. This paper has two sections A and B. Section A has **40** questions and section B has **15** questions.
The paper has **14** printed pages altogether.
2. Answer **all** questions. All answers to both Sections A and B must be written in the spaces Provided.
3. All answers must be written using a **blue** or **black** Ball point pen or **ink**. Any work written in pencil will **not** be marked
4. Unnecessary **changes** in your work hand writing that cannot easily be read may lead to **loss** of marks.
5. Do not fill anything in the table indicated
"For examiners' use only" and the boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S INITIALS
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. Mention how brick making leads to the spread of malaria in an area.
2. Give any **one** way in which farmers manage their crops in the garden.
3. Which kind of current electricity is got from burning fuels?
4. State the importance of the hydrochloric acid in the stomach.
5. Give any **one** reason why children should be fed on foods stuffs rich in mineral salts such as calcium and phosphorous.

The diagram below shows one way of making magnets. Use it to answer question 6 and 7.



Name the above method of making magnets.

How is the above magnet useful in a metal scrap industry?

Give any **one** reason why blood goes to the kidney during circulation.

9. Mention any **one** difference between insects and arachnids.

10. State **one** way in which the use of a rubbish pit helps to control diarrhea.

11. What should the government do in order to reduce on the common road accidents?

12. Give **one** way in which the youth can guard against HIV/AIDS.

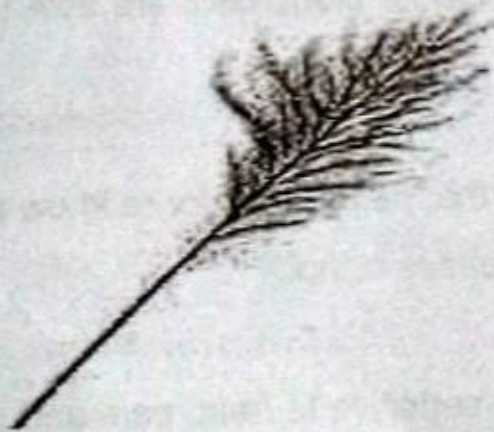
13. How can a mother preparing food in the kitchen protect herself from burns and scalds?

14. State **one** reason why we wring clothes after washing.

15. Apart from decomposition, mention any other example of a chemical change in the environment.

16. Mention any **one** sign of marasmus in babies.

The diagram below shows a feather of a bird. Use it to answer question 17.



17. Give the function of the above feather to the bird.

18. State any one reason of having an expiry date on a drug.
19. Why should a house for domestic animals have a slanting floor?
20. Give any one role played by trees in reducing global warming.
21. How are shadows formed?
22. Apart from honey, what else do farmers get from bees?
23. State one reason why farmers are encouraged to add fertilizers to their gardens.
24. State one way of reducing friction in wheelbarrows.
25. Why are soft porous materials put on the walls of cinema halls?
26. Which part of flower protects it at the bud stage?
27. State one way in which white blood cells are able to fight against disease causing germs.
28. Name the health record that helps a doctor to know if the child has been immunized against childhood killer diseases or not.
29. Which part of the body is sensitive to heat, pain and cold?
30. Mention the body part of an Ewe that is always cut short to allow easy mating.



31. Why does a fertilized egg covered with dirt fail to hatch when it is incubated?

32. State one way in which bacteria is harmful to our health.

33. Apart from being food, state any one other use of fungi to man.

34. How are fish similar to reptiles in terms of their body structures?

The diagram shows a type of first aid. Study it and use it to answer questions 35 and 36.



35. Name the accident whose first aid is shown above.

36. Write the abbreviation R.I.C.E in full as used in giving first aid for the above-mentioned accident.

37. How are cotton seeds dispersed?

38. State one reason why watering of crops should be done in the evening.

39. Write down any one activity a school science club can do to promote personal hygiene among school children.

40. State any one reason why women are advised not to smoke or drink alcohol when they are pregnant.

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SECTION B: (60 MARKS)

Question 41 to 55 carry four marks each.

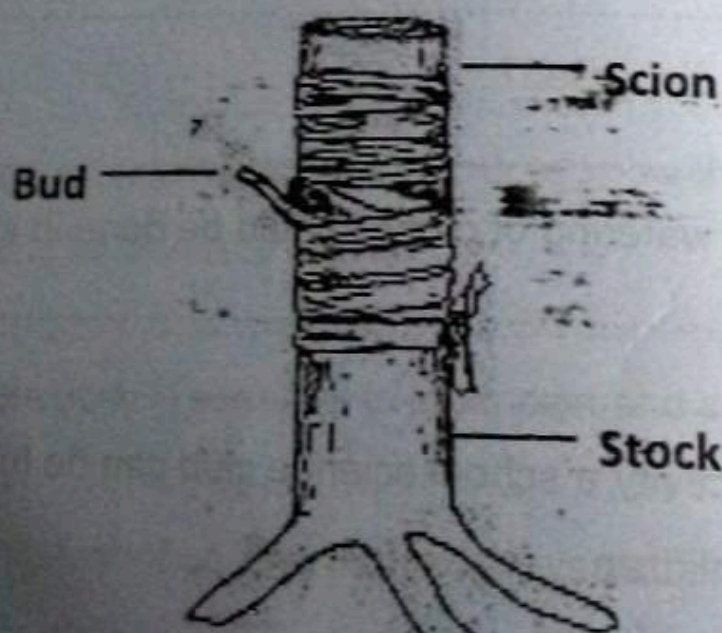
41. (a). Give **two** examples of Essential drugs.

- i.
- ii.

(b). Identify **two** ways in which people misuse drugs.

- i.
- ii.

The diagram below shows a type of plant propagation. Use it to answer question



42. (a) Name the artificial vegetative propagation method shown in the diagram.

(b) Apart from the above method, state any other **two** ways of artificial Vegetative propagation.

i.

ii.

(c) State any **one** advantage of vegetative propagation.

43. The table below shows the sources of different minerals and their uses. Complete the table correctly.

Mineral	Source	Use
a. Calcium	Milk , cheese, bread
b.	Liver, eggs, green vegetables	For health blood
c. Iodine	For proper functioning of muscles
d. Phosphorous	Milk , cheese

44. (a). What are social insects?

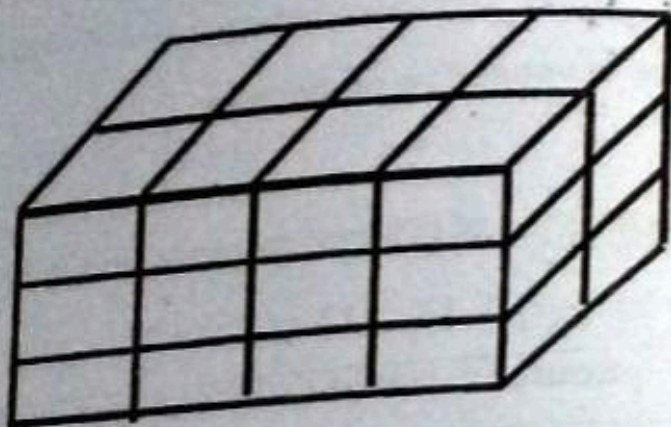
(b). State any **one** importance of insects to people

(c). Write down **two** ways in which insects spread disease to people

i.

ii.

Use the diagram below to answer question



45. (a). Find the volume of the figure above.

b) Give any **one** example of an irregular object.

.....

c) Mention **one** other way a P.7 pupil can use to find the volume of an object which is irregular in shape.

..... of an object which

.....

46. (a) Identify any **one** sign of pregnancy in girls.

(b) State any **one** way of preventing teenage pregnancies.

(c) State any **two** ways PIASCY messages are helpful to adolescents.

i.

ii.

47. (a) Identify a group of birds with strong, sharp curved beaks for tearing flesh.

(b) Give a reason why ducks have webbed toes.

(c) How are the following birds a disadvantage in the environment.

i. Weaver birds.....

ii. Kites.....

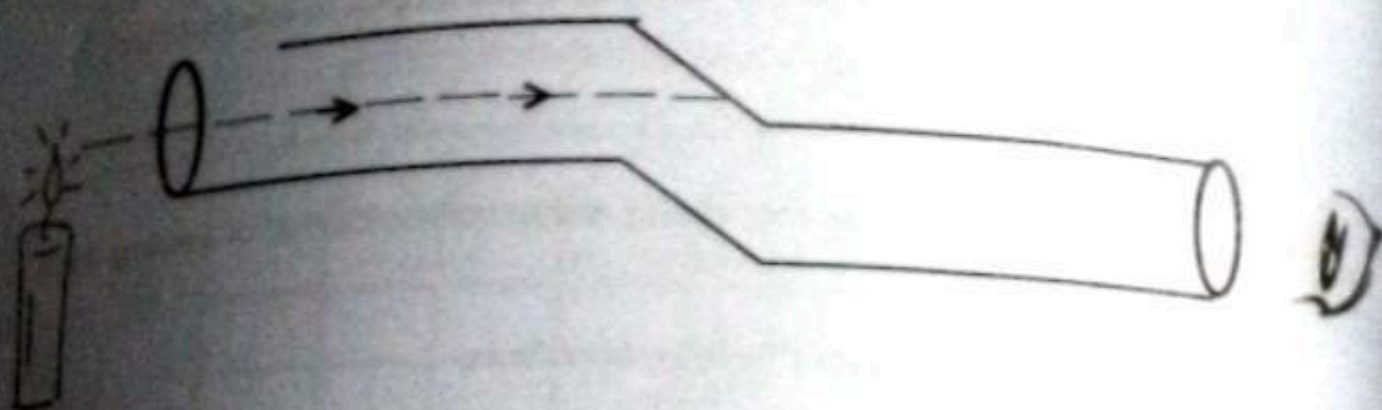
48. (a) What is an energy resource?

(b) State any **one** way man uses the sun as an energy resource.

(c) How can plants be conserved in the environment?

(d) Mention **one** disadvantages of petroleum to our environment.

The diagram below shows how light travels. Use it to answer question



(a). What property of light is shown above?



(b). State one thing Mr. Opio can do in order to see the candle light through the pipe.

(c). What happens when light meets the following objects?

i. Opaque objects.....

ii. Transparent objects.....

50. (a). Give any **one** method of making alcohol.

(b). How is yeast important during the fermentation process?

(c). State any **two** disadvantages of excessive consumption of alcohol to the body.

i.

ii.

51. (a). What is the importance of the following records on a farm?

i. Breeding records.....

ii. Inventory.....

(b). State any **two** advantages of keeping farm records.

i.

ii.

52. (a). Mention **two** ways family members can help each other towards good health

i.

ii.

(b). State **two** reasons why every community must have a health committee.

i.

ii.

53. (a). Give any **one** example of a protective food (Glow food).

(b). State a reason why beans are first dried before storing.

(c). State **two** importance of proper food handling.

i.

ii.

54. (a). What term refers to the daily atmospheric conditions recorded for a short period of time?

.....
(b). How does hot weather affect crop farmers?

.....
(c). Mention any **one** way in which water vapour enters the atmosphere.

.....
(d). Give any **one** reason why a weather station should be fenced.

.....
55. (a). State the law of moments as used in machines

.....
(b). Why is an axe grouped as a wedge?

.....
(c). How can the efficiency of a hoe be improved?

.....
(d). Mention any **one** machine that belongs to the first class levers

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