

# MASAKA CITY EXAMINATIONS BOARD

MOCK EXAMINATION- 2023

## INTEGRATED SCIENCE

*Time allowed: 2 hours 15 minutes*

SCHOOL RANDOM NO

PERSONAL NO

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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 **12** 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 NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

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Turn Over

## SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

1. Name the type of teeth present in the mouth of an adult human being.

2. Name **one** solvent used in the preparation of oral rehydration solution.

3. Mention any **one** way farmers can maintain soil fertility in their gardens.

4. Give any **one** method of heat transfer in matter.

5. Why are crushed egg shells added to the layers mash?

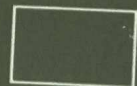
The diagram below is of a type of joint. Use it to answer questions 6 and 7



6. Name the type of movable joint shown on the diagram shown above.

7. State the importance of part Z in the joint.

8. State any **one** process involved in the rain cycle.





9. What type of air current enters the house through windows and doors?

.....

10. Give **one** use of alcohol to a school Nurse in the sick bay.

.....

11. How is the human kidney useful in the process of excretion?

.....

12. State any **one** reason why houseflies lay their eggs on decomposing matter.

.....

13. State **one** characteristic of objects that float on water.

.....

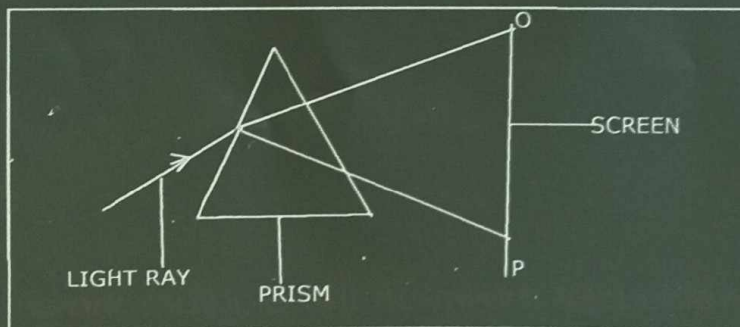
14. How useful is a swim bladder to a fish?

.....

15. Name any **one** flesh eating mammal kept at home.

.....

The diagram below shows a ray of light striking a glass prism. Use it to answer question 16 and 17.



16. Name the glass prism shown on the diagram above.

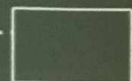
.....

17. Why does the light ray bend when it enters the glass Prism?

.....

18. Give any **one** way in which you can use plants as energy resource.

.....



19.How do teeth help in proper digestion of food?

.....

20.State **one** use of echoes to pilots.

.....

21.Give any **one** way some plants use to climb others.

.....

22.Why is a tick classified as an arachnid?

.....

23.Suggest **one** way how too much sunshine can be dangerous to crop farmers.

.....

The diagram below is of a beehive. Use it to answer question **24** and **25**



24.Name the type of beehive shown in the diagram above

.....

25. Give **one** reason why most rural bee farmers prefer the above type of beehive.

.....

26.Why is dew formed at night?

.....

27. State **one** way clay soil is useful to the construction industry.

.....

28. State the importance of rusting in the environment.

.....

29. Write any **one** immunizable disease that affects the lungs.

.....





30. Apart from zero grazing, name any other system of grazing cattle.

31. Name the type of fungi that helps in baking bread.

32. Give the first step in the cleaning of clothes.

33. How does a moth get attracted to a night rose flower?

34. State any **one** way of caring for sick people.

35. Name **one** root tuber crop which is propagated by use of seeds.

36. Write down any **one** activity done during a health parade.

37. Of what importance are Halteres to an insect during flight?

38. Give any **one** reason why farmers in Kisoro terrace their land.

39. Apart from brushing teeth, mention any **one** way a person maintains oral Health.

40. State **one** way of controlling diarrhea diseases.

### SECTION B: (60 MARKS)

Question 41 to 55 carry four marks each.

41 (a) What is a ranch?

(b) Mention any **two** factors to consider when starting a ranch.

i.

ii. ....

(c). What is the importance of capital as a factor of production?  
.....

The diagram below is of a child suffering from deficiency disease.  
Use it to answer question 42



42(a) Name the deficiency disease.  
.....

(b) State the cause of the above mentioned disease.  
.....

(c). Mention any **two** food stuffs the mother should give to the child  
to prevent the above disease.

i. ....

ii. ....

43(a) Write down any **two** ways of controlling crop pests in the  
maize garden.

(i) .....

(ii) .....

(b) Explain why it is not advisable to have a maize garden near a  
forest.  
.....

(c) What type of pollination does maize undergo?  
.....



44 Match items in list A with these in list B

A	B
(i) Knife	Harvesting rice
(ii) Forked Hoe	Digging stoney areas
(iii) Axe	Splitting wood
(iv) Sickle	Peeling

- (i) Knife .....
- (ii) Forked Hoe .....
- (iii) Axe .....
- (iv) Sickle .....

45(a) Give any **two** methods of administering vaccine.

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

(b) At what age is injectable polio vaccine administered to children?

.....

(c) Why are people who are above 50 years old given booster doses against Covid-19?

.....

46(a) Name the type of change in which a substance changes from one form to another but still remains the same.

.....

(b) Give any **two** examples of such changes mentioned above.

- (i) .....

- (ii) .....

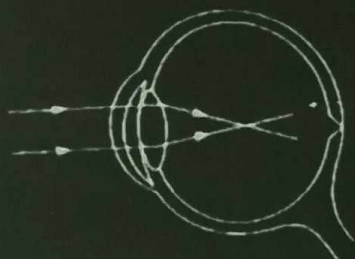
(c) How does melting as change takes place?

.....





The diagram below is of a human eye, study it to answer question 47



47(a) Name the eye defect shown in the diagram.

.....

(b) Name the type of lens that can be used to correct the defect.

.....

(c) Give the two possible reasons that cause this defect?

i. ....

ii. ....

48(a) Give any **two** methods of fishing.

(i) .....

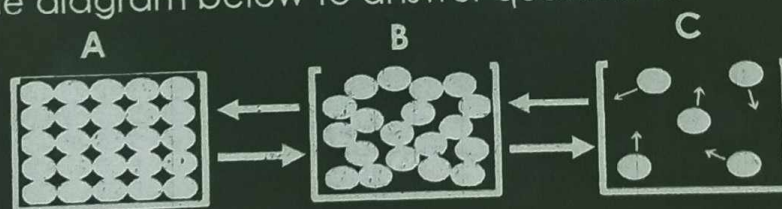
(ii) .....

(b) Which food value do we get from eating fish?

.....

(c) How does rearing of fish in a pond help in controlling the spread of malaria?

Use the diagram below to answer question 49



49(a) Name the state of matter labelled

A .....

B .....

(b) What process is used to change B to A

.....





(c) Give the form of energy that can be used to change state **B** to **C**

.....

50. Study the table below and complete it

Name of disease	Mode of transmission	Prevention
Cholera	.....	.....
.....	Through body contact	Avoid contact with infected person such as sweat, blood, urine, saliva
COVID 19	.....	Wearing masks

51 (a) Name **two** types of fruits.

(i) .....

(ii) .....

b. State **one** way in which fruits are useful in our diet.

.....

(c) Give an example of citrus fruit.

.....

52(a) State **two** methods of castration.

(i) .....

(ii) .....

(b) Give any **two** benefits of castration.

(i) .....

(ii) .....

53(a) Apart from holding a plant firmly in the ground, give any other two uses of roots to plants.

(i) .....

(ii) .....



(b) Mention any **two** advantages of vegetative propagation ..

i .....

ii .....

54(a) Briefly write the meaning of the following words.

(i) Near Drowning .....

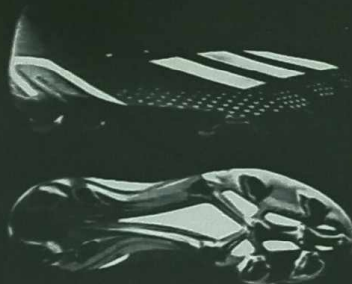
(ii) Drowning.....

(b) Give any two reasons for giving first aid.

(i) .....

(ii) .....

55(a) The diagram below is of a football boot.



(a)What is the use of the spikes on the football boots?

.....

(b)State any **one** way of increasing friction apart from the one shown above.

(i).....

(c)Suggest **one** way friction is useful in a classroom environment.

.....

(d)How can friction be reduced in the moving parts of the machine?

.....

END

