

# THE SIPRO MOCK 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: \_\_\_\_\_

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 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
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Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
Page 9		
Total		

Please turn over



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**SEMAS**

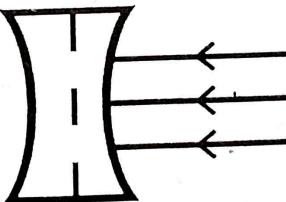
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## SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name the part of a lever that lies between the effort and the fulcrum.
2. Which food value is obtained from eating food from legumes?
3. How are antennae on an insect similar in function to the skin in mammals?
4. State one activity done by bee keepers to attract bees to occupy a new hive.
5. Give a reason why a person suffering from diarrhoea should be given treatment for dehydration.
6. Name any one exotic breed of goats kept for milk production.
7. In the diagram below, draw the light rays as they pass through the the given lens.  

8. In which way does wearing shoes help in the prevention of anaemia?
9. Name the reproductive cells in most fungi.
10. State the role of the brain in the process of hearing.
11. How are spiders helpful in the control of malaria in a home?
12. Apart from high temperature, name any other agent that contributes to the weathering process during soil formation.



13. Write the importance of the blubber to aquatic animals like whales and dolphins.

14. How are red blood cells able to carry oxygen in the human body?

15. Name the disease of the heart caused by regular smoking of tobacco.

16. Write any **one** way a sheep farmer can identify a sick sheep on the farm.

17. Where in plants does fertilization take place?

18. How does paddock grazing help to control the spread of tickborne diseases amongst cattle?

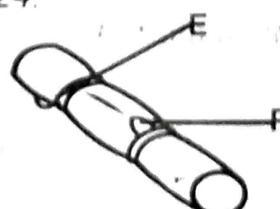
19. State **one** effect of polio to an individual.

20. How is the liver important during the process of digestion?

21. State **one** primary sex characteristic that is common in both adolescent boys and girls.

22. Give the role of sunlight during the process of photosynthesis.

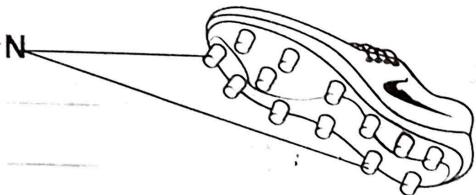
**The diagram below is of part of a sugarcane. Study and use it to answer questions 23 and 24.**



23. Name the part marked with letter E.

24. Give **one** function of part marked with letter P on the diagram.



25. In which way are humps important on busy roads?
26. How is the process of digestion important in the human body?
27. Why is it difficult to put off petrol fire using water?
28. State any **one** practice done to conserve soil in hilly areas.
29. Name the region of the kidney where urine is formed.
30. How is a biological change similar to a chemical change?
31. Why is it important to wear clean clothes?
32. Give a reason why school children are advised to abstain from sex until marriage.
33. Name the process in plants that helps in rain formation.
- The diagram below is of a sports shoe. Use it to answer question 34.**
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34. Why are structures marked with letter **N** useful to a football player on a rainy day?
35. State any **one** characteristic of images formed by plane mirrors.
36. Which form of smoking is suffered by family members whose father comes back home while smoking?
37. Why should parents feed their children on a balanced diet?



38. How are plant roots able to absorb water and mineral salts from the soil?

39. In which way is taking an underdose dangerous to the health of a sick person?

40. State any **one** activity in a home which requires the use of the decantation method.

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### SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

41. a) Name the type of germ which causes measles.

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b) Mention **one** sign and **one** symptom of measles in infants.

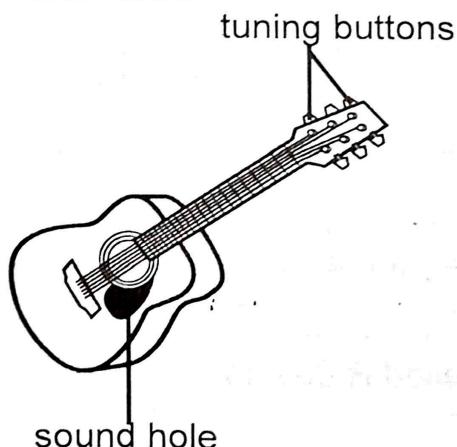
i) sign \_\_\_\_\_

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

c) Give a reason why the measles vaccine is not administered to babies at birth.

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42. The diagram below shows a musical instrument. Study and use it to answer the questions that follow.



a) To which group of musical instruments does the one drawn above belong?

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b) How does the musical instrument drawn above produce sound?

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c) State the function of the following features indicated on the guitar above.

i) sound hole \_\_\_\_\_

ii) tuning buttons \_\_\_\_\_

43. Match the body organs in list A with their functions in list B.

**List A**

liver

brain

lungs

nose

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

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

iii) nose \_\_\_\_\_

iv) lungs \_\_\_\_\_

**List B**

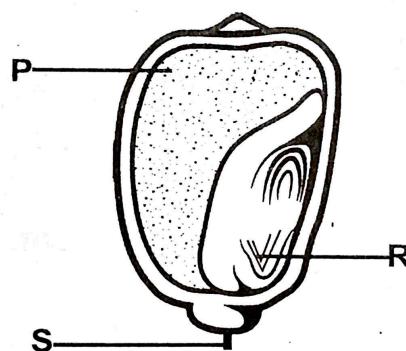
detects smell

stores vitamins and mineral salts

balances the body

for breathing

44. The diagram below shows a maize grain. Study it carefully and use it to answer the questions that follow.



a) Name part marked with letter P.

b) State the function of part labelled S on the grain.

c) What does part labelled R develop into after germination?

d) Give the reason why a maize grain is regarded as a fruit.



45. a) Name the pole of a magnet from which the lines of force run.

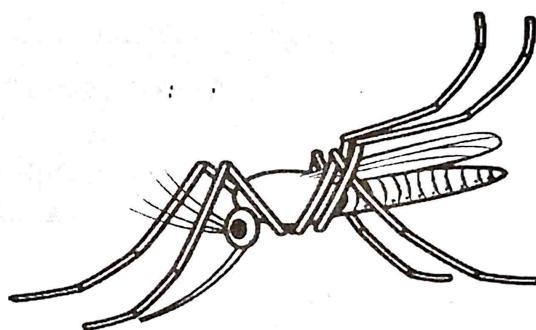
b) Which method enables a piece of iron attached to a permanent magnet gain magnetism?

c) Mention any **two** ways of making a magnet lose magnetism.

i)

ii)

46. The diagram below shows an adult stage of a mosquito. Study and use it to answer the questions that follow.



a) Identify the type of mosquito shown in the diagram above.

b) Use letter **P** and a label to show the part a mosquito uses for feeding.

c) How is the mosquito drawn above dangerous to people's health?

d) How can mosquitoes at the stage shown above be controlled in a community?

47. a) Mention any **two** activities in which inclined planes can be used in our daily life.

i)

ii)

b) Give **two** ways people using inclined planes can increase on their working rate.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

48.a) Name the structures on poultry feet that enable them scratch the ground as they look for food.

b) State any **two** factors considered when choosing the type of mash to be given to poultry.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

c) Give any **one** factor that may lead to low egg production on a poultry farm.

49.a) Name the solution made by mixing salt and water.

b) What does each of the following substances act as in the solution formed?

- i) salt \_\_\_\_\_
- ii) water \_\_\_\_\_

c) How can salt be recovered from such a solution?

50.a) What form of energy is stored in dry cells?

b) State the energy change which occurs in a functioning dry cell.

c) Name the non-metallic conductor of electricity in a dry cell.

d) Which form of current electricity is produced by a dry cell?



51. The diagram below shows a common accident at home. Study and use it to answer the questions that follow.



a) State two possible accidents which may occur from the situation above.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

b) State the first aid which can be given to the baby in case of any of the accidents mentioned in (a) above happens.

c) What can be done at home to prevent such accidents from happening?

52. a) Name the mineral element which is absent in breastmilk.

b) State one way in which breastfeeding is important in each of the following situations:

i) promoting the health of the baby

ii) promoting child spacing in a family

c) Why should breastfeeding mothers be given plenty of fluids to drink?



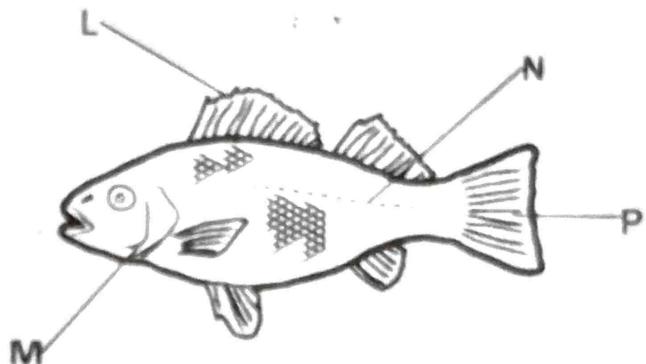
53.a) Give the function of the following parts on a thermos flask:

- double silvered walls \_\_\_\_\_
- vacuum \_\_\_\_\_

b) Name one material from which the cork of a thermos flask is made.

c) Write any one way of caring for a thermos flask.

54. The diagram below is of a fish. Study and use it to answer the questions that follow.



a) Name the part marked with letters;

- L \_\_\_\_\_
- M \_\_\_\_\_

b) Give the function of these parts on a fish.

- N \_\_\_\_\_
- P \_\_\_\_\_

55.a) State two importance of trees planted in the school compound.

- \_\_\_\_\_
- \_\_\_\_\_

b) Mention any two ways in which pupils can care for the trees planted in the school compound.

- \_\_\_\_\_
- \_\_\_\_\_

