

# THE SIPRO PRE - PLE SET I 2024

## INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.	EMIS No.						Personal No.		

Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

EMIS No. \_\_\_\_\_

District: ID \_\_\_\_\_

### 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;

Qn. No.	MARKS	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
Total		

Please turn over



THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA

PUBLISHERS OF THE SIPRO TEACHERS' GUIDES, LEARNER'S WORKBOOKS & PUPIL'S COMPANIONS

# SEMAS

Simplified Learning Today

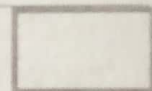
www.semas.org



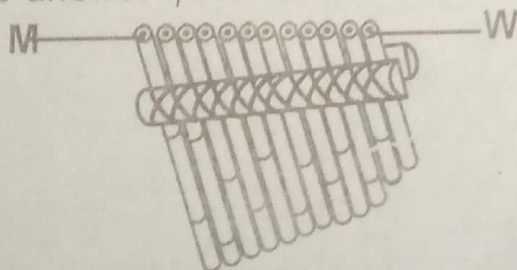
## SECTION A : 40 MARKS

Questions 1 to 40 carry one mark each.

1. Give any **one** reason why we should brush our teeth regularly.  
\_\_\_\_\_
2. State any **one** way reflection of light is useful in our daily life.  
\_\_\_\_\_
3. How do plasmodia germs get into our bodies?  
\_\_\_\_\_
4. Why should there be little light in a poultry house of layers?  
\_\_\_\_\_
5. State the difference between drug abuse and drug misuse.  
\_\_\_\_\_  
\_\_\_\_\_
6. Give any **one** danger of bacteria to cattle farmers.  
\_\_\_\_\_
7. Why is it advisable for crop farmers to paint metallic garden tools?  
\_\_\_\_\_
8. How is an armsling useful in the administration of First aid to casualties?  
\_\_\_\_\_  
\_\_\_\_\_
9. Give a reason why mushrooms are unable to make their own food.  
\_\_\_\_\_
10. Mention any **one** way of controlling the spread of foot and mouth disease in cattle from one area to another.  
\_\_\_\_\_  
\_\_\_\_\_



The diagram below shows a common musical instrument. Study and use it to answer question 11.

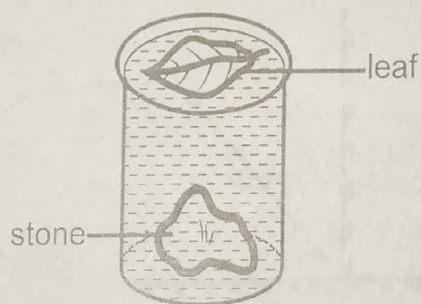


11. Why does pipe marked **W** produce a higher pitch than pipe marked **M**?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



12. State **one** reason why self-pollination cannot take place on a pawpaw plant.
13. Which method of heat transfer increases the rate of transpiration in plants?
14. What characteristic enables a whale to keep a constant body temperature?
15. How is the function of the kidney similar to that of the skin?
16. Mention **one** part of the body with a joint that allows an all-round movement.
17. Give any **one** way friction is of help to a butcher during work.
18. State the importance of a set of scales to a shopkeeper.
19. Mention **one** importance of hardening off seedlings before transplanting.
20. How does regular eating of citrus fruits control scurvy among infants?

The set up below is of an experiment that was carried out in a primary five class. Study and use it to answer questions 21 and 22.



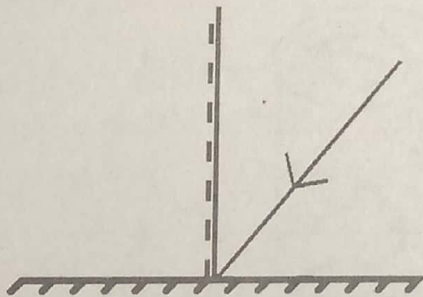
21. Give the reason why the leaf remained on top of the water.
22. What caused the stone to move to the bottom of the water?



23. Mention the commonest way through which HIV/AIDS is spread among human beings.
24. Name the state of matter in which molecules are farther apart.
25. Which body organ is greatly damaged by excessive cigarette smoking?
26. Apart from being immunized, state any other **one** way a child can acquire immunity.
27. Name the petroleum product that is commonly used in lanterns.
28. To which group of cold-blooded vertebrates does a frog belong?
29. Why should the batteries be arranged when the positive terminal is next to the negative terminal in a circuit?
30. How are birds and fish able to move easily without obstruction of matter?

Below is a diagram showing a ray of light striking a polished surface. Use it to answer questions 31 and 32.

31. Complete the diagram by drawing the reflected ray.



32. Name the part of a camera with a similar function as the retina in the eye.
33. Which structure of an arachnid helps in breathing?



34. Kelly's car engine caught fire and the on-lookers ran and poured sand to put out the fire. How did the sand help in putting out the fire?

35. Give any **one** reason why drugs should be well prescribed before giving them to patients.

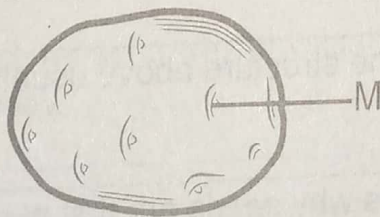
36. Opio weighs 40kg and his brother Odongo weighs 20 kg. Opio sits 4m away from the pivot and they balance on a seesaw. Calculate Odongo's distance from the pivot.

37. Write any **one** reason for starting a young farmers' club in school.

38. State **one** effect of frequent births to the woman's body.

39. Give the main use of fleshy leaves to an onion plant.

The diagram below is of an Irish potato tuber. Study and use it to answer question 40.



40. What is the importance of part marked with letter **M** after planting the tuber drawn above?





## SECTION B : 60 MARKS

Questions 41 to 55 carry four marks each.

41.(a) Which part of the respiratory system performs the following roles?

(i) separates the chest cavity from the abdominal cavity.

(ii) closes the trachea during food swallowing.

(b) How does pleural fluid protect the lungs from physical damages during breathing?

(c) Apart from COVID - 19, name **one** other viral immunisable disease of the respiratory system.

42.(a) What is an energy resource?

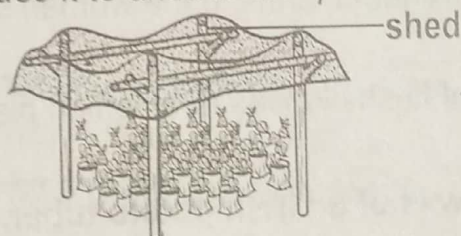
(b) Give any **two** uses of the sun as an energy resource to people.

(i)

(ii)

(c) How is energy from the sun harmful to wild animals?

43. The diagram below shows a structure in Mr. Ssebuggwawo's farm. Study and use it to answer the questions that follow



(a) Name the structure drawn above.

(b) Why is the shed on the structure above usually made of dark coloured materials?





(c) Give any **two** reasons why seeds are first planted in the above structure.

(i)





(ii)



44. In the table below, part P shows the diagrams of the symbols used in electricity. Part Q shows their names but in a wrong order.

P: Symbol	Q: Name
	ammeter
	electric bulb
	switch
	dry cell

Select from the above, the correct names and write them below.

- (i)  \_\_\_\_\_
- (ii)  \_\_\_\_\_
- (iii)  \_\_\_\_\_
- (iv)  \_\_\_\_\_

- 45.(a) State any **two** reasons why physical exercises are important to the human body.

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

- (b) Why does the heart of a child doing physical exercises pump faster than normal?

- (c) Write any **one** injury a child may get during physical exercises.



46.(a) Give any **two** reasons why HIV/AIDS is common among the youths.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Write any **two** PIASCY messages that can safeguard the youths against HIV/AIDS.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

47.(a) Give any **two** ways germs that cause dysentery can enter into our bodies.

(i) \_\_\_\_\_

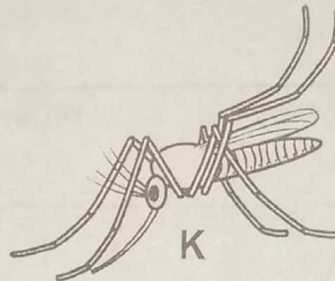
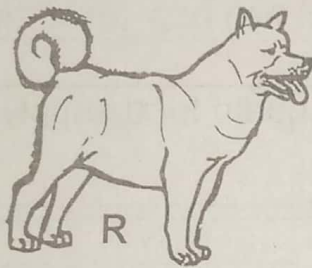
(ii) \_\_\_\_\_

(b) State any **two** health habits that you can practise in order to control the spread of dysentery in a community.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

48. The diagrams below are of two common vectors. Study and use them to answer the questions that follow.



(a) How are the vectors drawn above similar in the way they spread germs?

(b) Where does vector labelled **K** breed from in the environment?

(c) State any **two** ways the spread of germs by vector labelled **R** can be controlled.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_





49. (a) Mention any **one** example of a beehive with a queen excluder.

(b) Give any **one** duty of a worker bee in a hive.

(c) State any **two** factors one should consider before choosing a location for an apiary.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

50. (a) Name any **two** exotic breeds of rabbits commonly reared by Ugandan farmers.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Why do most young farmers prefer rearing rabbits to rearing cattle? (**Give two reasons**)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

51. (a) Mention any **two** causes of inadequate food supply in the community.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Give any **two** ways the problem of inadequate food supply can be solved.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

52. (a) Give the meaning of the term soil erosion.

(b) Why is soil erosion common in an area with very little vegetation?

(c) Write **two** human activities that can control soil erosion in a banana plantation on a sloping land.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_



53. (a) Mention any two physical changes which help in food preservation.

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

(b) How are the above changes different from rusting of iron?

(c) Which biological change occurs in the oviduct of female animals?

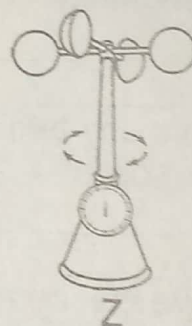
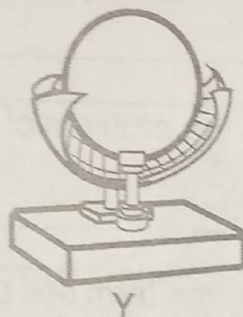
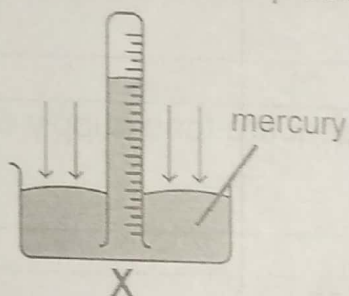
54. (a) Apart from having segmented body parts, mention two other characteristics of arthropods.

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

(b) Name the group of arthropods with two main body parts and ten jointed legs.

(c) State one danger of having anthills in a school garden.

55. The diagrams below are of weather instruments. Study and use them to answer the questions that follow.



(a) Name the weather elements determined by using instruments marked X and Y.

- (i) X \_\_\_\_\_  
(ii) Y \_\_\_\_\_

(b) Why is instrument marked Z not placed in forested areas when in use?

(c) Give one way of caring for instrument marked X after use.

