

THE SIPRO MID-TERM III EXAMINATIONS 2023

SUBJECT : INTEGRATED SCIENCE

CLASS : PRIMARY SIX

DURATION : 2 hours 15 minutes

Name : _____

School : _____

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
Page 1		
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Total		

Please turn over



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SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Apart from wind, name any other non-living agent of pollination.
2. How does the boiling of drinking water help in the control of diarrhoeal diseases?

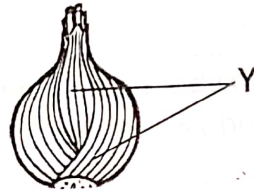
The diagram below shows a sanitary item. Use it to answer question 3.



3. In which way is water important in the management of the sanitary item shown in the diagram above?
4. Name **one** material used for making desks used at school.
5. State the importance of trees in a water cycle.
6. Which property of air enables a person to spray a perfume on his body?
7. Mention **one** example of draught cattle.
8. Why should food be served from a clean place?
9. Write any **one** human activity that leads to soil erosion.
10. Apart from the ear, name any other organ that helps in body balance.
11. Name **one** plant fibre which is used in the textile industry.
12. How are feathers useful to a bird?
13. State any **one** way wood fuel can be conserved at home.
14. Give **one** danger of eating a lot of sweets on a daily basis to one's teeth.



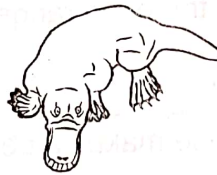
The diagram below shows an onion. Study and use it to answer questions 15 and 16.



15. State the function of part marked with letter Y on the diagram.
16. How is the plant shown above propagated?
17. Give **one** danger of rotting organic matter near an apiary.
18. Mention **one** disease which can affect an individual as a result of poor personal hygiene.
19. Name any **one** limbless reptile.
20. Mention any **one** way waste paper can be reused by people.
21. Give a reason why it is unnecessary to cut a nanny goat's tail short.
22. George's body temperature rose by 2°C . What was his new body temperature on the centigrade scale?

23. In which way is heat transferred by radiation useful to crop farmers?

The diagram below is of a monotreme. Study and use it to answer questions 24 and 25.

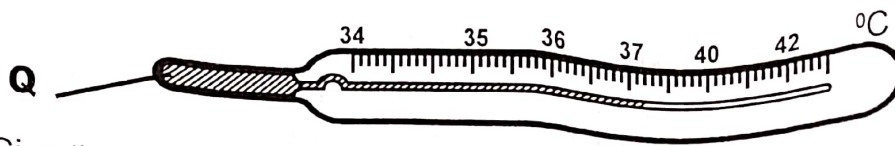


24. Identify the monotreme shown in the diagram above.
25. How is the reproduction of the above monotreme different from other mammals?



26. In which way is the distillation method of making alcohol similar to a water cycle?

The diagram below shows a type of thermometer. Study and use it to answer questions 27 and 28.



27. Give the importance of part marked with letter Q.
28. State a reason why it is important to shake the clinical thermometer before it's used.
29. Write any **one** way in which diseases spread by vectors can affect human health.
30. Apart from bacteria, name **one** other group of organisms that help in soil formation.
31. Name the type of weather that favours winnowing of harvested seeds and grains.
32. Give any **one** vegetable whose leaves are eaten as food.
33. State **one** way echoes are useful to people.
34. Which condition of germination helps to prevent the rotting of seeds?
35. Why is disease control in the open range system of keeping poultry difficult?
36. Which immunisable disease makes a person lame?
37. What problem results from damaging of the eardrum by sharp piercing objects?
38. State the force of attraction which holds molecules of different substances together.

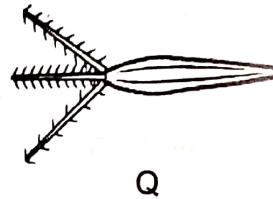
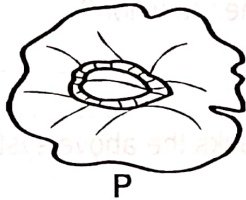


39. Name the type of teeth suitable for cutting food.
40. Kato was carrying a kettle full of hot tea. Accidentally, the steam got into contact with his hand. Which accident did Kato get?

SECTION B: 60 MARKS

Questions 41 to 55 carry **four** marks each.

- 41 (a) Name **two** methods used in administering vaccines to people.
- (i) _____
- (ii) _____
- (b) Mention any **one** bacterial immunisable disease.
- _____
- (c) State any **one** role of UNEPI in the promotion of immunisation programmes in Uganda.
- _____
42. The diagram below shows methods of seed dispersal. Study and use it to answer the questions that follow.

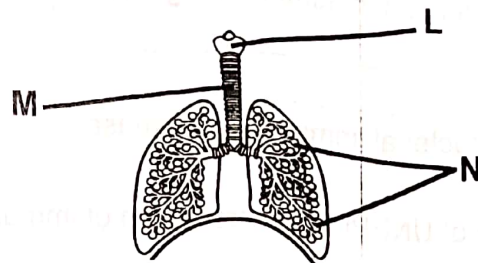


- (a) Name the agent of dispersal for each of the seeds above.
- (i) P _____
- (ii) Q _____
- (b) In which way is fruit labelled with letter **Q** adapted to its mode of dispersal?
- _____
- (c) Give **one** advantage of seed dispersal to plants.
- _____
- 43 (a) Name any **two** examples of sea mammals.
- (i) _____
- (ii) _____
- (b) State **the** way in which sea mammals are adapted to keeping a constant body temperature.
- _____
- (c) How is fur useful on the body of mammals?
- _____



- 44 (a) Name the method of heat transfer that helps people in;
- (i) sun-drying fish _____
 - (ii) ironing clothes _____
 - (iii) getting fresh air in the house _____
- (b) Give a reason why electricians always fix wires loosely on poles.
- _____

45. The diagram below shows the human respiratory system. Use it to answer the questions that follow.



- (a) Name parts marked with letters L and M.
- (i) L _____
 - (ii) M _____
- (b) How are parts marked with letter N adapted to their function?
- _____
- _____
- (c) Mention any **one** non-infectious disease that attacks the above system.
- _____
- 46 (a) Who are vulnerable groups of people?
- _____
- _____
- (b) Apart from the sick, name any other **two** examples of vulnerable groups of people.
- (i) _____
 - (ii) _____
- (c) State **one** way you can care for the vulnerable groups of people.
- _____
- 47(a) Apart from crude oil, give any other example of a fossil fuel.
- _____
- (b) Name the method used when separating crude oil components.
- _____
- (c) State any **two** ways of conserving fossil fuels.
- (i) _____
 - (ii) _____



48. The diagrams below are of wingless insects. Study and use them to answer the questions that follow.



(a) Identify the wingless insects marked with letters A and B.

(i) A _____

(ii) B _____

(b) Give **one** way in which insects are useful to crop farmers.

(c) What special name is given to chemicals used for controlling pests?

49(a) Mention any **two** causes of dehydration.

(i) _____

(ii) _____

(b) Give any **one** sign of a dehydrated child.

(c) What treatment can be given to a child who is dehydrated?

50. Below are garden tools in list A and their uses in list B.

Match them correctly.

List A

knap sack

forked hoe

garden trowel

sickle

List B

transplant seedlings to the main garden.

sprays pesticides to kill pests.

cuts pasture for domestic animals.

digs in rocky soils.

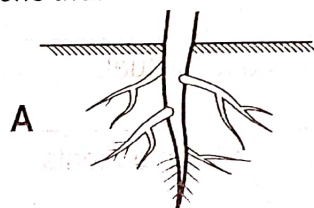
(i) knap sack _____

(ii) forked hoe _____

(iii) garden trowel _____

(iv) sickle _____

51. Below are diagrams showing root systems. Study and use them to answer the questions that follow.



(a) Name the group of flowering plants with root system represented by letters A and B.

(i) A _____

(ii) B _____



(b) State any **two** functions of roots to plants.

(i) _____

(ii) _____

52(a) Give any **two** examples of chemical changes that take place in living things.

(i) _____

(ii) _____

(b) Mention any **one** activity done to control the effect of chemical changes in metals.

(c) How are chemical changes similar to biological changes?

53(a) Apart from sweeping, give any **two** activities done to keep a house clean.

(i) _____

(ii) _____

(b) Give any **two** reasons why a house should be kept clean.

(i) _____

(ii) _____

54(a) What is weathering?

(b) Apart from weathering, name any other method of soil formation.

(c) Write any **two** factors that lead to weathering of rocks.

(i) _____

(ii) _____

55(a) Mention any **two** human activities that have degraded the environment.

(i) _____

(ii) _____

(b) Mention any **two** dangers of environmental degradation in the environment.

(i) _____

(ii) _____

