

THE SIPRO MOCK II 2023

INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.	Random No.						Personal No.		

Candidate's Name: _____

Candidate's Signature: _____

School Random 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:

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Total		

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THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA

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

SECTION A : 40 MARKS

Questions 1 to 40 carry one mark each.

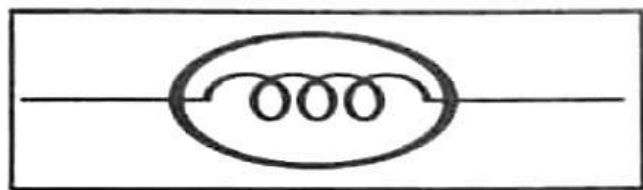
1. Name the sense organ that enables a mother to hear her child crying.

2. Give one item used for trimming fingernails.

3. State one way in which rainy weather may be a disadvantage during harvesting of millet.

4. Which part of an Irish potato grows into a shoot system?

The diagram below shows a symbol used in an electric circuit. Use it to answer questions 5 and 6



5. Name the electric symbol drawn above.

6. How does the component of a circuit represented above perform its function?

7. What advice can you give to goat farmers in order to control tickborne diseases?

8. State any one danger of chewing marijuana to the health of the youths.

9. Name the type of seed dispersal common in winged seeds.

10. How do plants benefit from sunbirds that suck nectar from their flowers?



11. In which way can fainting be prevented in schools?

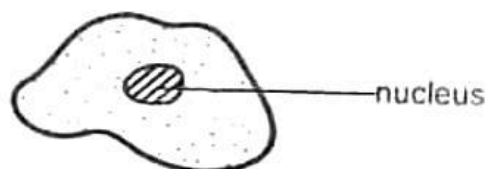
12. What property makes sand the best for construction?

13. Give any **one** way in which health education is important in controlling the spread of COVID-19.

14. How do plastic materials thrown in soil affect its productivity?

15. State the best food recommended for babies.

The diagram below is of a blood cell . Use it to answer questions 16 and 17.



16. What type of blood cell is shown in the diagram above?

17. Give **one** way the blood cell drawn above defends the body from germs.

18. How is protection in a tortoise similar to that of a garden snail?

19. Why is it difficult to control the spread of diseases in the free-range system of keeping poultry?

20. Mention any **one** reason why oxygen is considered to be matter.

21. Why should school children cross busy roads at a zebra crossing?



22. What type of electricity enables a ruler rubbed in hair to attract small pieces of paper?

23. Give the reason why the root system develops first in a germinating seed.

24. What happens when an opaque object is placed in front of light?

The diagram below is of a leaf. Study and use it to answer questions 25 and 26.



25. Name the part made with F.

26. How is part labelled D useful in a leaf?

27. State any one physical change which occurs in female adolescents but not in male ones.

28. Name the internal parasites that damage the liver in the human body?

29. When Jane looked into the mirror, she saw her face at the back of the mirror. State how her face got into the back of the mirror.

30. Mention one thing that happens to blood that flows from the heart to the lungs.



31. What enables most mammals to control heat loss on cold days?

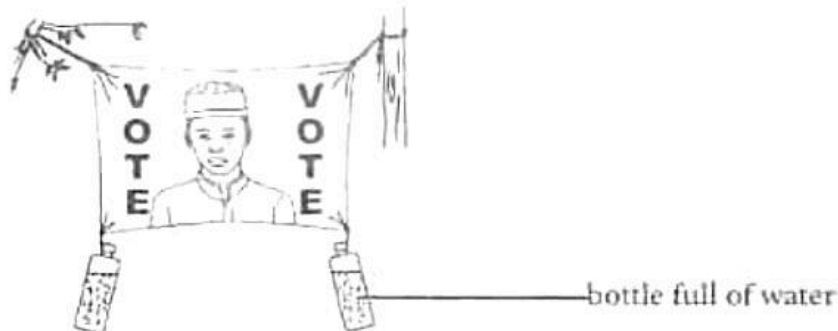
32. Which insect vector hides in overgrown hair on the head?

33. What causes river blindness?

34. State the main product obtained from the dorper sheep

35. State any one way in which the body structure of a spider is similar to that of a cockroach.

The diagram below shows a banner displayed at school. Use it to answer question 36.



36. Give the reason why bottles of water are tied on the banner as seen in the diagram above.

37. Mention one practice which may prevent hookworm infestation in humans.

38. How is the arrangement of molecules in gases different from that in liquids?

39. Which body system is commonly affected by diphtheria?

40. Write one way waste paper can be put into use by people.



Questions 41 to 55 carry four marks each.

41. The diagrams below show two types of teeth. Study and use them to answer the questions that follow.



(a) Identify the types of teeth labelled K and L;

(i) K _____

(ii) L _____

(b) Which activity can be done by the help of each of the above drawn teeth when eating?

(i) K _____

(ii) L _____

42. (a) State one difference between mass and volume.

(b) What happens to the volume and density of a liquid when it freezes?

(i) volume _____

(ii) density _____

(c) Give any one characteristic of irregular objects.

43. (a) Name the eye defect corrected by wearing spectacles with a convex lens.

(b) State the two causes of the eye defect named in 43(a) above.

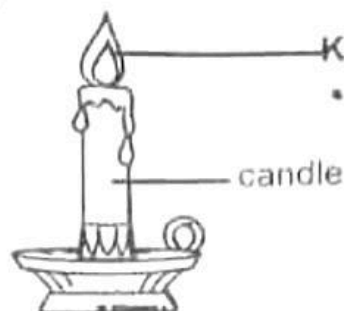
(i) _____

(ii) _____

(c) What health problem is faced by a person with the eye defect named in 43(a) above?



44. The diagram below is of a burning candle. Study and use it to answer the questions that follow.



(a) What **two** forms of energy are given off at K?

(i) _____

(ii) _____

(b) Which material is used for making candles?

(c) Why is the use of candles for lighting considered to be unsafe in homes?

45. (a) Which type of germination do most cereals undergo?

(b) Why is warmth a necessary requirement during germination?

(c) Give any **two** factors that may make a seed fail to germinate when all conditions are provided

(i) _____

(ii) _____

46. (a) Name the germ that causes AIDS.

(b) Give any **two** reasons why a person with tuberculosis may be mistaken to be an AIDS patient.

(i) _____

(ii) _____

(c) State the best way school children can avoid contracting HIV/AIDS.



47 (a) Give any two examples of root tuber crops grown in the community.

- (i) _____
(ii) _____

(b) Which food value is common in most root tuber crops?

(c) State any one way of caring for harvested root tuber crops.

48. The diagrams below show common animals. Study and use them to answer the questions that follow.



(a) State one common characteristic among all the above animals.

(b) Which of the animals drawn above is warm blooded?

(c) How is animal marked with letter X similar to animal marked with letter Y in their mode of reproduction?

(c) Why would you group a tortoise together with animal X?

49. (a) Name the gas used in fire extinguishers.

(b) Why is the gas mentioned in (a) the best option to be used in fire extinguishers?

(c) Apart from using a fire extinguisher, state any two other ways of putting out fire in case of an outbreak.

- (i) _____
(ii) _____



50. (a) State any **two** ways in which chemical changes are different from physical changes.

(i) _____

(ii) _____

(b) Name the physical process that occurs when,

(i) steam changes to water _____

(ii) a gas changes to solid _____

51. (a) Name any **two** examples of non-flowering plants that reproduce in the same way as a maize plant.

(i) _____

(ii) _____

(b) Mention any **two** economic importance of conifers to people.

(i) _____

(ii) _____

52. (a) Give any **two** reasons why most rabbit farmers choose to rear exotic breeds

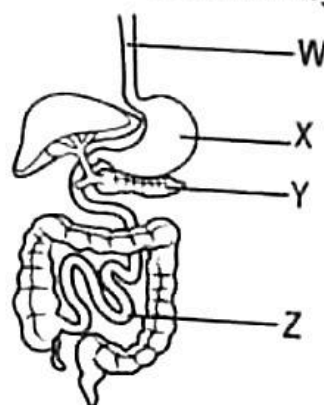
(i) _____

(ii) _____

(b) Name the rabbit disease characterised by mucus discharge, runny eyes, wheezing and sneezing.

(c) Write **one** way in which the above disease can be prevented.

3. The diagram below is part of the human digestive system. Use it to answer the questions that follow.



(a) Name the parts marked with letters;

(i) Y _____

(ii) W _____

(b) State the function of the part marked with letter X.

(c) Give any **one** process that takes place in part marked with letter Z.

54. (a) State any **two** advantages of using a VIP latrine over an ordinary pit latrine

(i) _____

(ii) _____

(b) Why should every family have a latrine /toilet?

(c) What reason do people give for constructing a pit latrine below the level of a water source?

55. Okello used a block and tackle pulley system to raise a load of 500kg to a height of 10m from the ground. *Use the above information to answer the questions that follow.*

(a) Mention any **one** advantage of using the above pulley system to Okello.

(b) If the mechanical advantage (M.A) of the pulley is 2; Find the effort needed to raise that load. (3marks)

