

THE SIPRO END OF 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
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Page 6		
Page 7		
Total		

Please turn over



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SECTION A : 40 MARKS

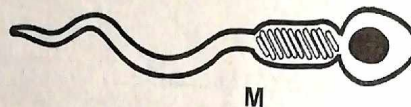
Questions 1 to 40 carry one mark each.

1. Name **one** natural source of sound in the environment.
2. Which property of air is applied when filling car tyres with air?
3. Mention the main use of valves found in the human heart.
4. State **one** common way of propagating both banana plants and pineapples.
5. How are Alpine goats similar to Saanen goats in terms of their products?
6. Which force makes objects weigh differently on the moon and on the earth?
7. Give **one** way of controlling external parasites in rabbits.
8. In which way do clay charcoal stoves help to conserve plants?

The diagrams below show the two reproductive cells in animals. Use them carefully to answer questions 9 and 10.



K

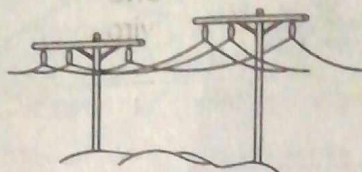


M

9. Name the reproductive cell marked with letter K.
10. State the immediate result obtained from the fusion of the two cells in the oviduct of a female human being.
11. Name any **one** liquid foodstuff which is an energy giving food.
12. How does rearing of poultry using cage system control poultry diseases?
13. Besides being affordable, state any other characteristic of essential drugs.
14. State the use of fungi in promoting soil fertility.
15. Assuming you are the health prefect, what first aid can you give to a fainted child during a school assembly?
16. Give **one** danger of blackflies to the health of people.



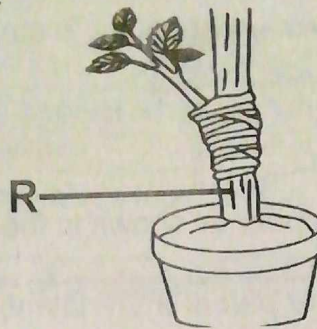
The diagram below is of electric wires on a hot day. Study and use it to answer question 17.



17. State the reason why the wires appear as shown in the above diagram.
18. Apart from a squat hole, what other part of a VIP latrine promotes proper air circulation?
19. State **one** condition that leads to bottle feeding in babies.
20. Write any **one** way the nose is adapted to cleaning inhaled air.
21. Name **one** item that can be made from sisal fibres apart from mats.
22. Why is free range grazing method of keeping cattle said to be unfriendly to crop farmers?
23. Jane washed clothes and hung them in the sun. What is the importance of such a practice?
24. State any **one** disadvantage of artificial fertilizers to crop farmers.
25. Give **one** characteristic of renewable resources.
26. Mention **one** reason why melting of ice is regarded as a physical change.
27. Name any **one** lung disease prevented by wearing face masks regularly.
28. What piece of advice can you give to a mother whose children are suffering from tapeworm infestations?
29. State the main reason why a salamander is grouped under vertebrates.
30. How long does a ewe take to produce after fertilisation?
31. What are communicable diseases?



The diagram below shows a propagation process in plants. Study and use it to answer question 32.



32. Name any **one** plant propagated by the above method.
33. Which body sense enables a P.6 child read work written on the chalkboard?
34. Name any **one** group of organisms which ferment milk to form yoghurt.
35. Mention any **one** way of controlling root crop diseases.
36. What type of digestion takes place in the stomach when the stomach walls churn food into chyme?
37. State any **one** effect of alcoholism to the family.
38. Mention the deficiency disease that makes a child have Ox - bow legs.
39. How are red blood cells useful in the process of respiration?
40. State **one** role of cats in the control of rats in a home.

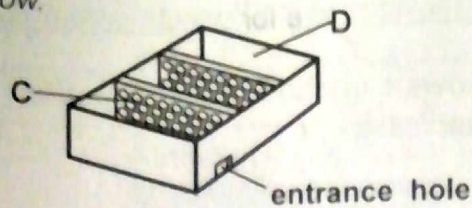
SECTION B : 60 MARKS

Questions 41 to 55 carry four marks each.

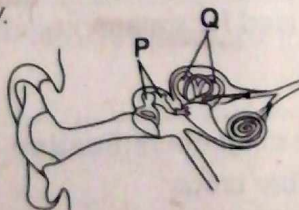
41. a) Apart from floods, give any other **two** natural causes of changes in the environment that affect crop farmers.
- (i) _____
- (ii) _____
- (b) State any **one** effect of floods to crop farmers.
- _____
- (c) Give **one** way of controlling floods in the environment.
- _____



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



- (a) Name the beehive drawn above.
- (b) Write the importance of part marked with letter C on the diagram.
- (c) State **two** advantages of using the above beehive.
- (i) _____
- (ii) _____
43. a) Which sexually transmitted disease has similar signs and symptoms to tuberculosis?
- (b) Give any **two** similar signs or symptoms of the above mentioned disease in (a) to tuberculosis.
- (i) _____
- (ii) _____
- (c) State the best way of controlling the spread of tuberculosis among newly born babies.
- _____
44. The diagram below shows parts of the human ear. Use it to answer the questions that follow.

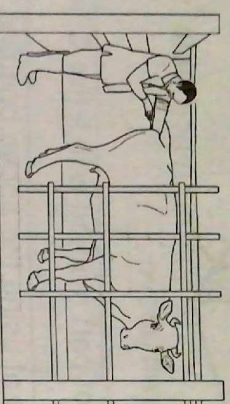


- (a) Name the parts labelled with letters P and Q.
- (i) P: _____
- (ii) Q: _____
- (b) Name **one** communicable disease that attacks the human ears.
- (c) Give **one** way of caring for the human ear.
45. a) State **one** natural source of heat apart from the sun.
- (b) Write any **one** difference between heat and temperature.
- _____
- _____



- (c) State the two ways heat travels through matter.
- (i) _____
- (ii) _____

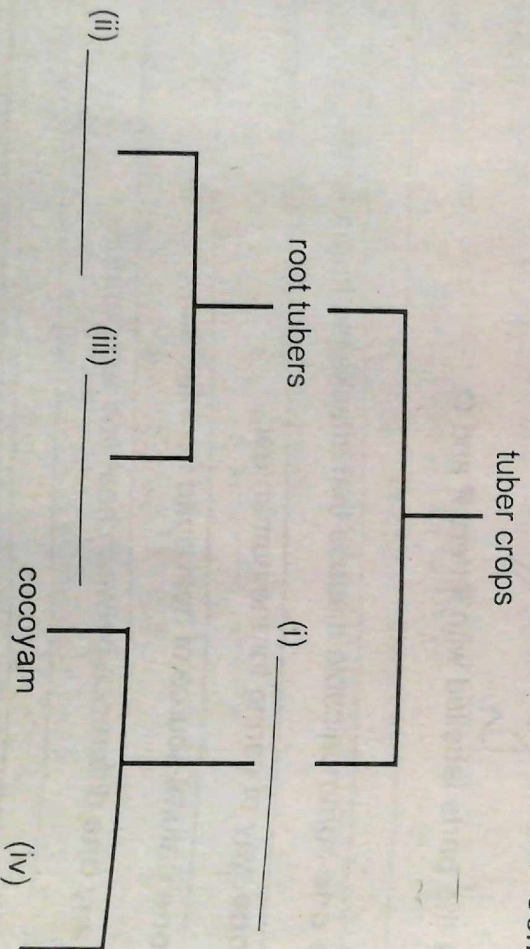
46. The diagram below shows a method of insemination. Study and use it to answer the questions that follow.



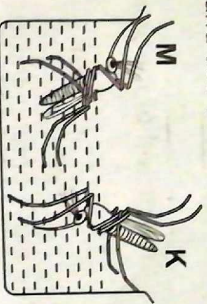
- (a) Name the type of insemination shown above.
- _____
- (b) State any one advantage and disadvantage of the above type of insemination.
- (i) advantage: _____
- (ii) disadvantage: _____
- (c) Name the farm structure in which insemination is carried out.
- _____

47. a) Give any two elements of weather.
- (i) _____
- (ii) _____
- (b) In which one way is weather forecasting important to crop farmers?
- _____
- (c) Name the weather instrument used for measuring air pressure in the atmosphere.
- _____

48. The diagram below shows tuber crop classification chart. Complete it.



49. The diagram below shows two mosquitoes with parts of their bodies dipped in water. Study and use them to answer the questions that follow.



(a) Which of the above mosquitoes will die first?

(b) Give a reason to support your answer in 49 (a) above.

(c) Name the mosquito - borne disease caused by a virus.

(d) How is a mosquito different from a cockroach in terms of lifecycle?

50. a) State any two ways people pollute water sources.

(i) _____

(ii) _____

(b) Give one human activity that leads to silting.

(c) Write one way of controlling silting.

51. a) Name the component of soil which:

(i) holds soil particles together. _____

(ii) improves soil aeration. _____

(b) How are bacteria useful during soil formation?

(c) Mention one activity a young farmers' club can do to control soil erosion in a school garden.



52. a) In which **two** ways do farmers care for seedlings in a nursery bed?

- (i) _____
- (ii) _____

(b) State **two** importance of a shed to a nursery bed.

- (i) _____
- (ii) _____

53. a) What type of smoking takes place among children sitting near their father who is smoking cigarette?

(b) State **one** effect of smoking tobacco to:

- (i) a family: _____
- (ii) a pregnant woman _____
- (c) Apart from tobacco, name any other narcotic drug commonly abused by people. _____

54. a) Name **one** domestic animal used for ploughing land by people.

(b) State any **two** ways of caring for domestic animals.

- (i) _____
- (ii) _____

(c) Give **one** reason why it is dangerous to share a living house with domestic animals.

55. List **Q** bears some useful fungi and bacteria with the importance of each in **P** but in a wrong order. Match them correctly.

Q

Nitrogen fixing bacteria
Putrefying bacteria
Yeast
Penicillium

P

- fermentation of alcohol
- making antibiotic drugs
- decomposition of organic matter
- fixing nitrogen into the soil

(i) Nitrogen fixing bacteria: _____

(ii) Putrefying bacteria : _____

(iii) Yeast : _____

(iv) Penicillium : _____

