

THE SIPRO END OF TERM II EXAMINATIONS 2023

SUBJECT : INTEGRATED SCIENCE

CLASS : PRIMARY FOUR

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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Total		

Please turn over



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SECTION A: 40 MARKS

Questions 1 to 40 carry **one** mark each.

1. Name any **one** process involved in the water cycle.
2. Mention any **one** characteristic of clay soil.
3. Name the root crop commonly affected by mosaic disease.
4. Give **one** danger of eating too many sweets to oral health.
5. Mention **one** cattle product which provides proteins to a school going child.
6. Why does a drone bee die soon after mating with the queen bee?

The diagram shows one of the intestinal worms in humans. Use it to answer question 7.



7. How can infestation of the worm shown in the diagram above be controlled among people?
8. How does an Irish potato plant differ from a sugarcane plant in terms of food storage?
9. State the method used to measure the volume of objects like a stone.
10. Why are reptiles said to be cold blooded animals?
11. Mention **one** thing that happens to food in the mouth.



12. Give one way of controlling bacterial diseases among people.
13. State one way non-renewable resources like fossil fuels be conserved.
14. Which class of food keeps the human body warm?
15. How is a burn different from a scald?

The diagram below shows one of the methods of seed dispersal. Study and use it to answer question 16.



16. State the mechanism of seed dispersal shown in the diagram above.
17. What causes kwashiorkor in babies?
18. How is nagana spread among domestic animals?
19. By what process do root hairs absorb water from the soil?
20. Why is germination of seeds grouped under biological changes?
21. Give one advantage of keeping rabbits over keeping cattle.
22. Name the process of soil formation where bacteria are used.
23. Why does the government carry out immunisation of children free of charge?
24. Give any one example of a solitary insect.
25. State one function of hydrochloric acid during digestion of food.
26. Mention one way of controlling snake bites in homes.
27. Name any one accident that affects bones.

The diagram below shows two common vegetables in our environment.
Use it to answer question 28.



28. How is vegetable K similar to vegetable L in the way they were propagated?
29. Mention **one** difference between an earthworm and a fish in terms of breathing.
30. Give any **one** type of poultry.
31. Write any **one** activity that can be done during a windy weather.
32. Mention any **one** way people can care for pregnant mothers as vulnerables.
33. State any **one** disease that can be caused due to poor personal hygiene.
34. Name **one** useful item made from plant fibres.
35. How are houseflies able to spread germs among people?
36. State the importance of the garden tool drawn below.



37. What general term is given to diseases caused due to poor feeding?
38. Give **one** importance of health parades in schools.
39. Mention **one** method of harvesting cassava.
40. Name the chemical substances that speed up the digestion of food.



SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each

41. a) Give any **two** ways of harvesting rainwater.

i) _____

ii) _____

b) Mention **two** ways people use rainwater.

i) _____

ii) _____

42. a) Name the first set of teeth to grow in babies.

b) Give any **two** mineral salts responsible for the growth of strong teeth and bones.

i) _____

ii) _____

c) Mention any **one** way people care for their teeth.

43. a) Mention the **two** methods of heat transfer through matter.

i) _____

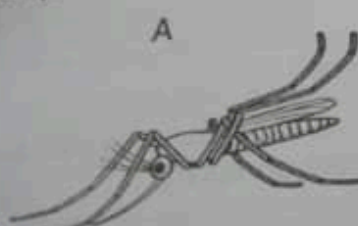
ii) _____

b) Give any **two** effects of heat loss on matter.

i) _____

ii) _____

44. The diagrams below show **two** types of mosquitoes. Use them to answer the questions that follow.



a) Name the types of mosquitoes shown in the diagrams marked with letters A and B above.

i) A _____

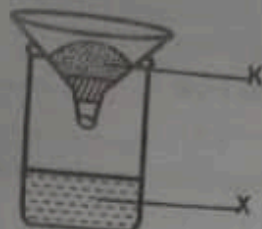
ii) B _____

b) Which communicable disease is spread by mosquitoes marked with letters A and B?

i) A _____

ii) B _____

49. The diagram below shows a method of separating mixtures. Use it to answer the questions that follow.



- a) Identify the method of separating mixtures shown in the diagram above.
- b) Why should the water collected at X not be drunk?
- c) Write any **two** uses of water collected at X at home.
- i) _____
- ii) _____
50. a) State **two** importance of keeping the human body clean.
- i) _____
- ii) _____
- b) Mention any **two** ways of keeping good personal hygiene.
- i) _____
- ii) _____
51. a) Give any **two** examples of root tuber pests.
- i) _____
- ii) _____
- b) State any **two** characteristics of tuber crop pests.
- i) _____
- ii) _____
52. a) Give the characteristic of living things that enables animals:-
- i) to multiply in number _____
- ii) run away from enemies _____
- b) State **two** reasons why animals make sound.
- i) _____
- ii) _____



53. a) How do birds,

i) reproduce? _____

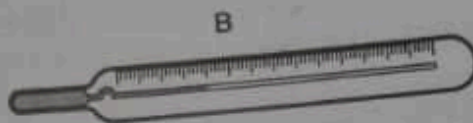
ii) breathe? _____

b) Name the group of birds that:-

i) feeds on abandoned meat: _____

ii) hunts and kills their prey: _____

54. The diagrams below are of items found in a first aid box. Use them to answer the questions that follow.



a) Identify the first aid kit shown by letters A and B.

i) A _____

ii) B _____

b) Give the uses of the first aid kit shown by letters A and B in the diagrams above.

i) A _____

ii) B _____

55. Match the vaccines in list M to their body sites in list N correctly.

List M

polio vaccine

DPT vaccine

measles vaccine

BCG vaccine

List N

left upper arm

mouth

left upper thigh

right upper arm

i) polio vaccine _____

ii) DPT vaccine _____

iii) measles vaccine _____

iv) BCG vaccine _____



45. a) Give the meaning of the term germs.

b) Mention any two types of germs.

i) _____

ii) _____

c) State one way of controlling the spread of germs in the environment.

46. The diagram below shows a root system of a certain plant. Use it to answer the questions that follow.



a) Identify the group of crops with such roots.

b) Give any two examples of plants with such roots.

i) _____

ii) _____

c) Mention the importance of part labelled P on the group of crops drawn in 46 (a) above.

47. a) Why should a beehive be set up in a quiet place?

b) Give any two products that can be obtained from an apiary.

i) _____

ii) _____

c) How can a crop farmer benefit from a nearby apiary?

48. a) Give any two elements of weather.

i) _____

ii) _____

b) Mention any two items people use to protect themselves from the rainy weather.

i) _____

ii) _____

15. Name any **one** example of harmful insects in our community.

16. Write any **one** crop growing practice.

17. State any **one** way the spread of typhoid can be controlled in the environment.

18. Name the type of root system found in maize plants.

19. State any **one** way of controlling mosquito bites at home.

20. Mention the type of teeth with a chisel shaped enamel.

21. Name any **one** weather instrument kept in a Stevenson screen.

22. Give any **one** product got from domestic animals.

The diagram below is of a foodstuff. Study and use it to answer question 23.



23. Name the class of food got from eating the foodstuff above.

24. State any **one** way of caring for our body organs.

25. Why is loam the best for growing crops?

26. Name any **one** disease spread by a housefly to people.

27. Give any **one** component of air.

28. What name is given to the breathing organs of an insect?



29. What is germination?

30. Name the garden tool used to reduce branches on a plant.

31. In which season do crop farmers prepare the garden?

32. Which method of controlling rats in a home is shown in the diagram below?



33. Name the type of weather that enables people to collect water for domestic use.

34. What name is given to a constructed habitat for rabbits?

35. Give **one** reason why casualties are taken to a nearby hospital.

36. State any **one** disease that may break out due to poor sanitation in a school.

37. How are rat guards useful on a granary?

38. Name the best food for babies.

39. State any **one** use of wind in our community.

40. Write any **one** disease that affects the human skin.



SECTION B: 60 MARKS

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

41 (a) Name the main natural source of light and heat on earth

(b) Give any **two** uses of sunlight in our environment.

(i) _____

(ii) _____

(c) State any **one** danger of too much sunshine to a farmer.

42(a) What is personal hygiene?

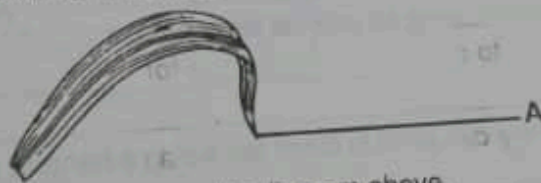
(b) Give any **two** ways of promoting personal hygiene.

(i) _____

(ii) _____

(c) State any **one** material used to promote personal hygiene.

43. Study the diagram shown below and use it to answer the questions that follow.



(a) Name the part marked **A** on the diagram above.

(b) Give any **two** crops with such a leaf drawn above.

(i) _____

(ii) _____

(c) Name the type of venation in the leaf drawn above.

44 (a) State any **two** PIASCY messages.

(i) _____

(ii) _____

(b) What does letter "**A**" stand for in the word PIASCY?



SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name any **one** source of food in our environment.

2. How does a bee protect itself against enemies?

3. State any **one** cause of common accidents in our homes.

4. Give the importance of a first aid box to a first aider.

The diagram below is of a tool used to keep our bodies clean. Study and use it to answer questions 5 and 6.



5. Name the item marked with letter Y.

6. Give any **one** reason why people use part X when brushing their teeth.

7. Write any **one** reason why people preserve food.

8. Give any **one** example of a resource in our environment.

9. Name any **one** sense body organ.

10. State the type of soil commonly used for modelling.

11. How is a sponge useful during bathing?

12. Write any **one** colour of traffic lights.

13. What name is given to a young plant?

14. Why are people encouraged to drink enough water after a meal?



49(a) What name is given to diseases caused due to lack of some food values in the diet?

(b) State any two examples of such diseases.

(i)

(ii)

(c) How best can such diseases be controlled among children?

50(a) Give two examples of non-living things.

(i)

(ii)

(b) Write any two characteristics of non-living things.

(i)

(ii)

51. Study the diagram shown below and use it to answer the questions that follow.



(a) Name the dangerous object shown above.

(b) Give any two effects of the accident caused by the above object.

(i)

(ii)

(c) State any one way of preventing accidents caused by the object drawn above.

52 (a) Name any two common insects that can make food dirty.

(i)

(ii)

(b) State any one way of keeping food safe.

(c) Give one disease commonly got from eating dirty food.



(c) How are PIASCY messages important to school children?

45 (a) Write any two people-made activities that damage the environment.

(i) _____

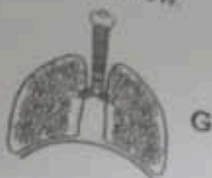
(ii) _____

(b) State any two ways of conserving our environment.

(i) _____

(ii) _____

46. The diagrams below are of body organs. Study and use them to answer the questions that follow.



(a) Name the body organs drawn above.

(i) G _____

(ii) S _____

(b) Write any two ways of caring for internal body organs.

(i) _____

(ii) _____

47 (a) Give two reasons why it is good to cover top soil in a banana garden with dry plant materials.

(i) _____

(ii) _____

(b) Give one danger caused by dry plant materials in a banana garden.

(c) How do crop farmers harvest ready banana fruit?

48(a) What is first aid?

(b) Mention two reasons for giving casualties first aid.

(i) _____

(ii) _____

(c) State any one quality of a good first aider.



(a) Why do we wash our hands after visiting a latrine?

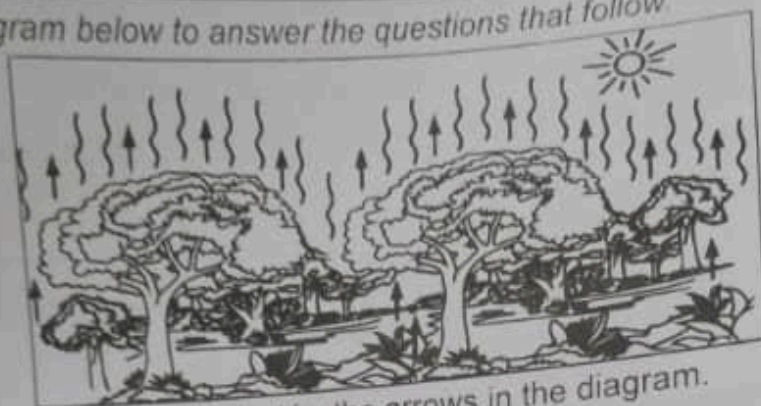
(b) State the importance of a latrine at home.

(c) Mention any **two** activities done by people to keep a latrine clean.

(i) _____

(ii) _____

54. Use the diagram below to answer the questions that follow.



(a) Name the process indicated by the arrows in the diagram.

(b) Mention any **two** uses of trees to people in our community.

(i) _____

(ii) _____

(c) Give any **one** importance of trees to wild animals.

55. Match the following classes of food with their foodstuffs.

Classes of food

proteins

carbohydrates

vitamin C

mineral salts

Foodstuffs

fruit

liver

eggs

cassava

(i) proteins _____

(ii) carbohydrates _____

(iii) vitamin C _____

(iv) mineral salts _____