

THE SIPRO PRE-PLE SET III 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;

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



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Simplified Learning Today

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name the fungal disease which affects the soft skin between the toes.

2. State any **one** characteristic common to all insects apart from the three main body divisions.

3. Why does salt disappear when it is mixed in soup?

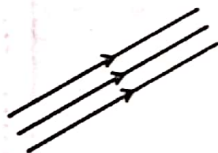
4. How does heat from the sun preserve harvested seeds?

5. Give any **one** way of preventing indigestion as a digestive disorder.

6. In which **one** way can a P.7 child keep the school compound clean?

7. Why is a tick regarded as a unique arachnid?

The diagram below shows two types of beams. Study and use it to answer questions 8 and 9.



8. Name the type of beam rays marked with letter M.

9. Write any **one** source of light that produces the type of beam shown in letter N.

10. State **one** reason why smoking is dangerous to human health.



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1

11. Which element of Primary Health Care (PHC) is important in providing knowledge that helps to prevent malaria?

Study the list of crops provided below and use it to answer questions 12 and 13.

sugarcane, tomatoes, pineapples, maize, coffee

12. Identify any **one** crop from the list above which is an annual crop.

13. Give a reason to support your answer in (12) above.

14. How does regular cleaning of water trenches control floods in an area?

15. In which way does injecting a baby with BCG vaccine boost the immunity against tuberculosis?

16. State **one** way animal dung and urine can be useful to people, apart from being used as manure.

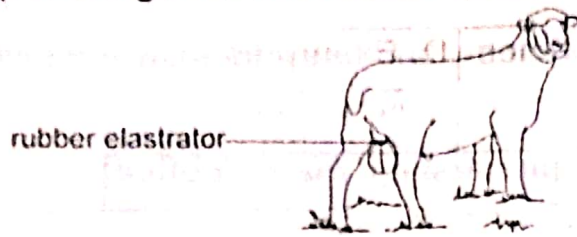
17. What should crop farmers do to banana suckers in order to reduce transpiration?

18. Why is water obtained by filtration not recommended for drinking?

19. State the role played by the skin in the control of deficiency diseases.



The diagram below shows one of the management practices in sheep rearing. Use it to answer questions 20 and 21.



20. Name the type of castration shown in the diagram above.

21. Give **one** advantage of using the method of castration drawn above.

22. Which bone of the human skeleton connects the shoulder to the elbow?

23. State the property of a magnet which enables a pilot to find direction.

24. Give any **one** reason why plants are classified as living things.

25. State any **one** way the hygiene of pupils in a school can be improved.

26. Which type of soil has a moderate water holding capacity?

27. State the role of bacteria in a food chain.

28. How is the function of incisor teeth similar to that of a knife in the kitchen?

29. How does a sweater keep the body warm on a cold day?

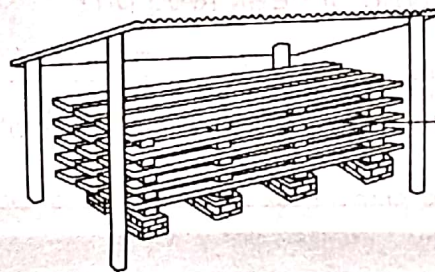
30. Apart from mulching, give **one** other practice in a school garden that improves soil fertility.

31. State **one** way a VIP latrine helps to minimise flies.

32. Mention the type of change that makes iron tools change colour to brown.

Below is a diagram showing a method of preserving wood.

Use it to answer questions 33 and 34.



33. Which method of preserving wood is illustrated above?

34. Give the reason why the wood in the method above is raised from the ground.

35. State any **one** way of controlling the spread of gonorrhoea infections among the youth.

36. In which way is the production of sound in a flute different from that of a guitar?



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44. a) Give any **two** differences between a toad and a frog as amphibians.

i) _____

ii) _____

b) Which type of fertilisation do amphibians undergo?

c) State the role of amphibians in the control of the spread of malaria.

45. a) Mention any **two** dangers of dust in the environment.

i) _____

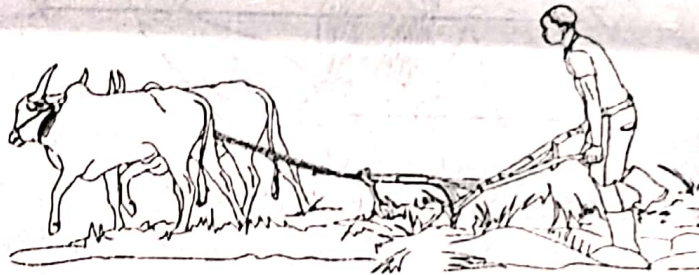
ii) _____

b) Mention any **two** ways of reducing dust in the environment.

i) _____

ii) _____

46. The diagram below shows a type of cattle used on crop farms.
Use it to answer the questions that follow.



a) Name the type of cattle shown in the diagram above

b) How are such cattle useful on a large crop farm?

c) Give **two** reasons why crop farmers decide to use such cattle to do the activity mentioned in (b) above.

i) _____

ii) _____



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47. In the table below, part C shows the groups of simple machines and part D shows their examples in their wrong order.

C: Groups of simple machines	D: Examples
levers	bolts and nuts
inclined planes	windlass
screws	seesaw
wheels and axles	winding road on a hill

Select from the table the correct examples of the groups of simple machines and write them in the space provided below:

- i) levers _____
- ii) inclined planes _____
- iii) screws _____
- iv) wheels and axles _____

48. a) Which term is used to mean a meal that contains all food values in their right amount?

b) Name the deficiency disease characterised by swollen moon face, swollen limbs and brownish hair in infants.

c) What causes the disease named in (b) above?

d) State the best way of protecting children from deficiency diseases.



49. a) Mention any **one** cause of anti-social behaviour in most schools.

b) State any **two** examples of anti-social behaviour common in schools.

i) _____

ii) _____

c) Mention any **one** way of controlling anti-social behaviour in schools.

50. The diagram shows a common vehicle in a community. Study and use it to answer the questions that follow.



a) Name any **two** products of petroleum that are transported in the vehicle drawn above.

i) _____

ii) _____

b) Give a reason why the vehicle drawn above is usually painted white.

c) Why are drivers of such vehicles discouraged from smoking cigarettes?

51.a) What do we call objects that enter the body through natural openings?

b) Write **two** examples of such objects that often get into our eyes.

i) _____

ii) _____

c) State the first aid you would administer to a victim with such objects in the eye.

52. a) Give any **two** characteristics of fruit dispersed by animals.

i) _____

ii) _____

b) Apart from animals, mention **two** other agents of seed dispersal.

i) _____

ii) _____

53.a) State **one** characteristic common to all social insects.

b) Give any **two** examples of social insects.

i) _____

ii) _____

c) Write any **one** danger of social insects.



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54. The table below shows parts of the digestive system and their functions. Complete it correctly.

digestive part	function
a) _____	stores food temporarily
pancreas	b) _____
c) _____	absorbs water
liver	d) _____

55. The sentences below are the steps taken during seed germination and are in a wrong order.

Rearrange the sentences in correct order from the first phase to the last phase.

Wrong order

- Radicle grows and comes out of the testa.
- The seed coat swells.
- The plumule comes out of soil.
- The seed absorbs water and air.

Correct order

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____



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