

# 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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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 lab  
part 1

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) \_\_\_\_\_

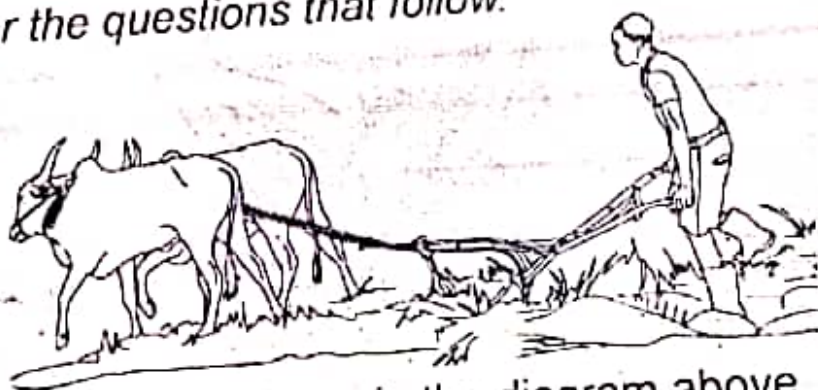
ii) \_\_\_\_\_

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) \_\_\_\_\_

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) dust / dirt

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) attractive smell

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.

\_\_\_\_\_



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

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



51.a) W

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.



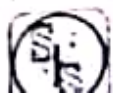
a) Name any two products of petroleum that are transported in the vehicle drawn above.

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?





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 \_\_\_\_\_

3.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.

\_\_\_\_\_

42. a) Write any **two** examples of vectors that spread germs through bites.

i) \_\_\_\_\_

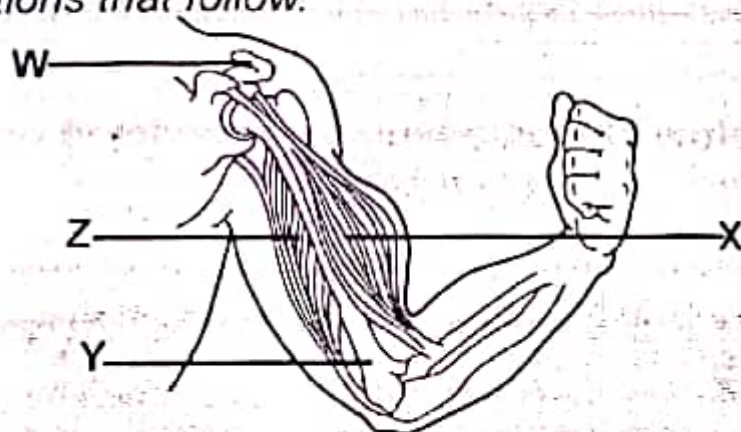
ii) \_\_\_\_\_

b) Apart from bites, give **two** other ways through which vectors spread germs.

i) \_\_\_\_\_

ii) \_\_\_\_\_

43. The diagram below shows the fore arm. Study and use it to answer the questions that follow.



a) Name the bone labelled with letter Y.

\_\_\_\_\_

b) What happens to muscles X and Z when the forearm is raised?

i) X \_\_\_\_\_

ii) Z \_\_\_\_\_

c) Why is the joint at W able to permit an all round movement?

\_\_\_\_\_



37. Give any one way of increasing friction on a slippery road surface.

38. State any one important information collected during a health survey.

The diagram below is of a head of a bird. Use it to answer questions 39 and 40.



39. What does a bird with this type of beak feed on?

40. Give a reason to support your response in number 39 above.



### SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each

41. a) Where do the following plants store their food?

i) onions

ii) sugarcane

b) State one method of harvesting the following crops;

i) onions

ii) sugarcane

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

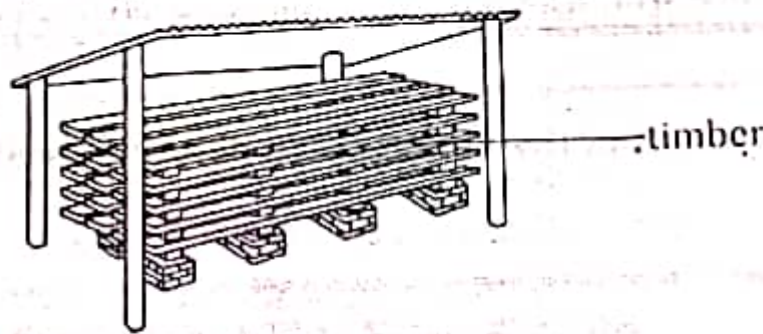
30. Apart from mulching, give **one** other practice in a school garden that improves soil fertility.

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.

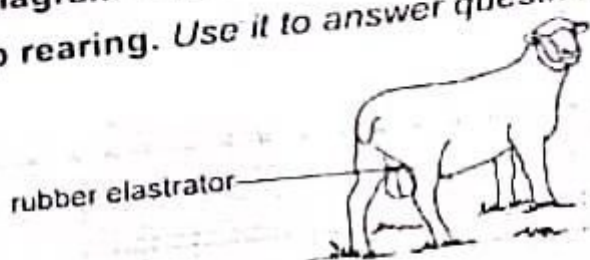
35. State any **one** way of controlling the spread of gonorrhoea infections among the youth.

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



29.  
30. Apa  
Imn

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.

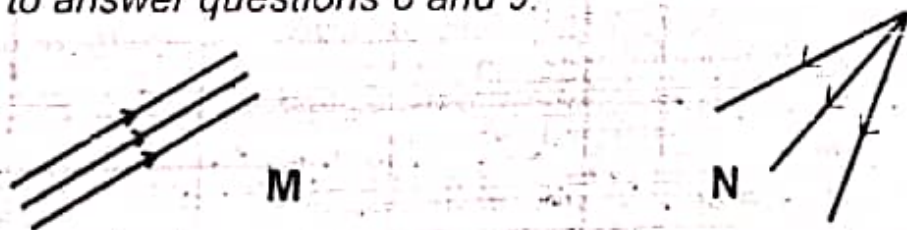
28. How is the function of incisor teeth similar to that of a knife in the kitchen?

## 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.  
\_\_\_\_\_

