

# THE SIPRO PRE - PLE SET V 2024

## 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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### **SECTION A : 40 MARKS**

- Questions 1 to 40 carry one mark each.
1. Name the human body organ which stores information.
  2. How is toothpaste important in the promotion of dental hygiene?
  3. State any one importance of having a correct body posture.
  4. Give a reason why it is advisable to include leguminous crops in a crop rotation cycle.
  5. Mention any one factor health workers consider before prescribing drugs for a patient.

**The diagram below shows a common tool used when preparing land. Study and use it to answer questions 6 and 7.**



6. How is the tool drawn above useful in the preparation of land?  
\_\_\_\_\_
7. State one way the tool drawn above can be kept in a good working condition.  
\_\_\_\_\_
8. Why is water not used to stop fire caused by petrol?  
\_\_\_\_\_
9. Give a reason why ash is added to a compost pit when making compost manure.  
\_\_\_\_\_
10. Name any one fungal disease that affects the reproductive system  
\_\_\_\_\_
11. Mention the role played by plants in the water cycle.  
\_\_\_\_\_

12. Name cavity  
13. Give  
14. St  
15.

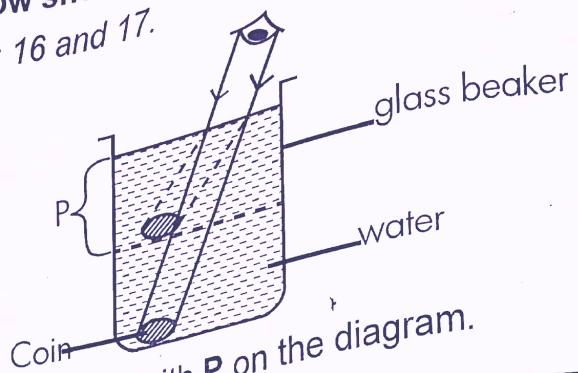
12. Name the sheet of muscle in human beings that separates the chest cavity from the abdominal cavity.

13. Give any one way written sound can be reproduced.

14. State how the function of the ovary in a flower is similar to that of the testes in male animals.

15. In which way does the blubber in sea mammals keep their bodies warm?

The diagram below shows a property of light. Study and use it to answer questions 16 and 17.



16. Name the distance marked with P on the diagram.

17. State the reason why a person sees a coin nearer the water surface other than its real position.

18. How is the use of a strip cup different from that of the lactometer on a cattle farm?

19. Give one way the prolonged use of drugs can damage the brain.

20. Which vector spreads elephantiasis to people?

21. How is the left ventricle of the heart well adapted to its function?



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IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

22. Apart from being vertebrates, state any other way birds are similar to fish.

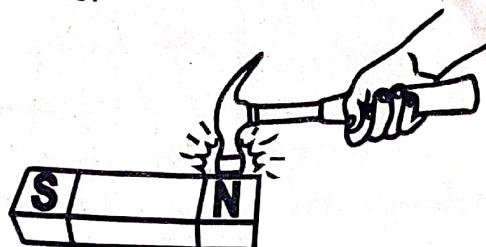
23. In which way is the sun useful in the control of rickets among infants?

24. An object of mass 150gm was lowered into a bowl of water and it displaced water which filled a cup of  $30\text{cm}^3$ . Calculate the density of the object.

25. Which agent of soil erosion leads to formation of gulleys?

26. Write any one thing that happens when pollen lands on the stigma.

The diagram below shows a certain activity. Study and use it to answer questions 27 and 28.



27. How does the activity above affect a bar magnet?

28. State any one way the strength of a bar magnet can be maintained

29. Give one use of an axe as a wedge at home.

30. In which way are fungi useful components of a food chain?

31. State one condition under which a P.7 child is considered to be vulnerable.

32. Name the structures that provide directional movement of blood with in veins.



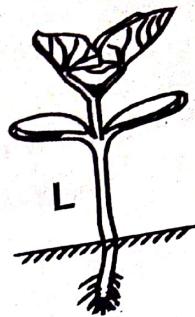
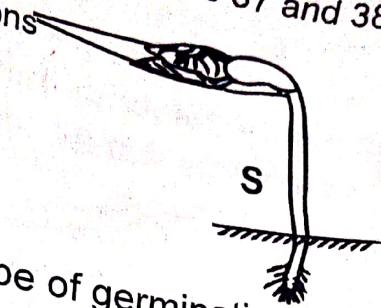
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33. How does uncontrolled bush burning affect the environment?
34. Which body organ is mainly affected by near drowning?

35. Which method of food preservation makes germs dormant in food?  
The diagram below shows a germinating bean seed. Study and  
use it to answer questions 37 and 38.



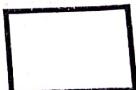
Identify the type of germination drawn above.

Give a reason why the cotyledons are less important at stage L.

State one way of keeping rabbits free from diseases on a farm.

Which way is a VIP latrine made in order to reduce a bad smell in?

Name any one plant that has the pinnate compound leaf.



## SECTION B : 60 MARKS

Questions 41 to 55 carry four marks each.

Give any two ways food can get contaminated.

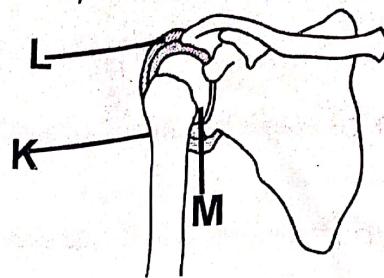
which two ways can food contamination be controlled at home?

**42. (a)** Which part of a vacuum flask prevents heat gain or loss by convection and conduction?

**(b)** State the importance of a vacuum seal on a thermos flask.

**(c)** Give any two ways a vacuum flask can be safely kept at home.  
i) \_\_\_\_\_  
ii) \_\_\_\_\_

**43. Below is a diagram showing one of the joints in the human arm. Study and use it to answer the questions that follow.**



**a)** Which type of joint is drawn above?

**b)** Name the parts labelled with letters;  
i) L \_\_\_\_\_

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

c) How is the function of part marked with L similar to that of oil put in a door hinge?  
\_\_\_\_\_

**44. a)** Name any one bee product used to make the following products  
i) syrups \_\_\_\_\_

ii) shoe polish \_\_\_\_\_

**b)** Write any two ways flowering plants are useful to bees.  
i) \_\_\_\_\_

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



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5. a) Mention one accident that may result from the following practices:

i) walking in a bush \_\_\_\_\_

ii) eating while talking \_\_\_\_\_

b) State the first aid for each of the accidents mentioned in (a) above.

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

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

16. The table shows common groups of crops in A and their examples in B. but in a wrong order.

A: Groups of crops	B: Their examples
vegetables	cowpeas
stem tubers	garlic
legumes	spinach
bulbs	cocoyams

Select from the above the correct examples of the groups of crops and write them down.

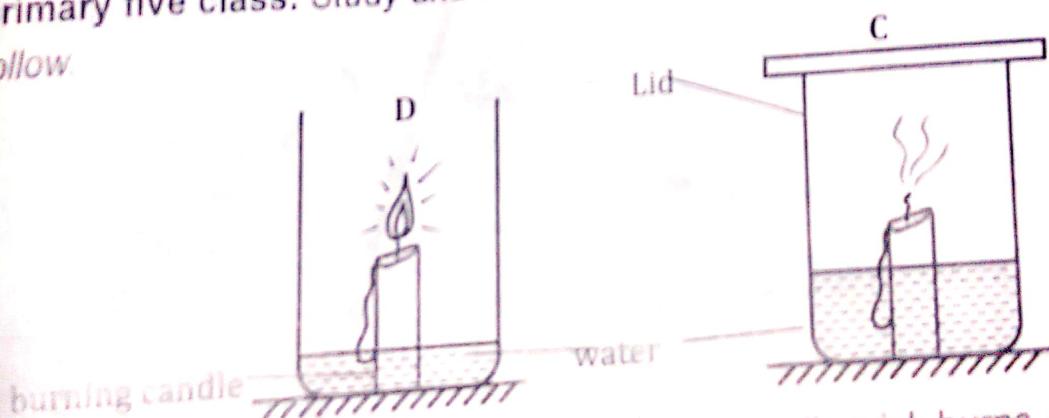
i) vegetables \_\_\_\_\_

ii) stem tubers \_\_\_\_\_

iii) legumes \_\_\_\_\_

iv) bulbs \_\_\_\_\_

17. The diagram below shows an experiment carried out by a primary five class. Study and use it to answer the questions that follow.



a) Name the type of change that occurs as the candle wick burns.

b) State one reason for each of the following observations in diagram C;

- i) the candle flame going off \_\_\_\_\_
- ii) the water level rising \_\_\_\_\_
- c) What does the experiment above prove about air?  
can be re-used in the \_\_\_\_\_

48.a) Give any two ways broken plastic materials can be re-used in the

(c) State any one way the item above is adapted to its function.

(d) Which energy resource enables that above item to perform its function?

51. The table below shows classes of food, their sources and their uses in the body. Complete it correctly.

class	source	use in the body
Roughages	vegetables and fruits	a)
(b) _____	milk	growth and repair
mineral salts	c) _____	formation of strong bones and teeth
d) _____	fruit	Good health.

52. (a) Name one germ that causes dysentery in infants.

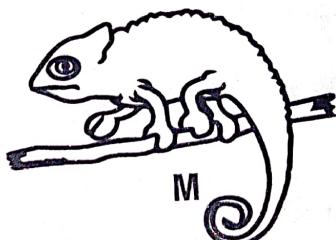
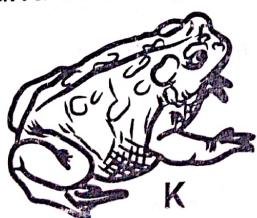
(b) Write any two common signs of dysentery among infants.

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

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

(c) Give one control measure of dysentery without using drugs.

53. The diagrams drawn below are of two common animals. Study and use them to answer the questions that follow.



(a) To which group of vertebrates does each of the animals above belong?

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

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



(b) How is animal K different from animal M in terms of reproduction?

(c) Give one way a crop farmer benefit from animal M.

54. (a) Define the term child spacing.

(b) Mention any two artificial methods used by parents to space their children.

i)

ii)

(c) How does a mother benefit from spacing her children?

55. (a) Give the importance of each of the following parts on a tapeworm's body:

i) suckers:

ii) segments:

(b) State any one adaptation of tapeworms that enables them to survive action of digestive juices and enzymes.

(c) Mention any one common practice at home that controls tapeworms among family members.

