

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.

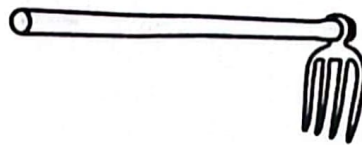
2. How is toothpaste important in the promotion of dental hygiene?

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.



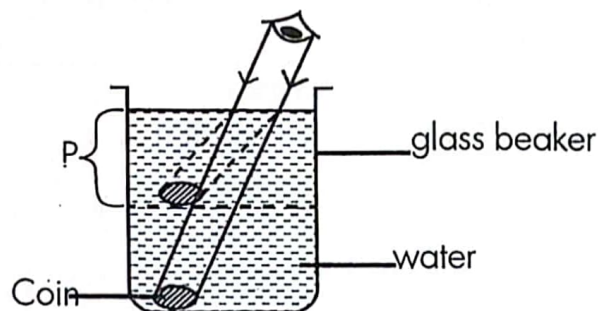
12. Name the sheet of muscle in human beings that separates the chest cavity from the abdominal cavity.

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.



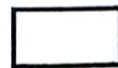
16. Name the distance marked with **P** on the diagram.

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?

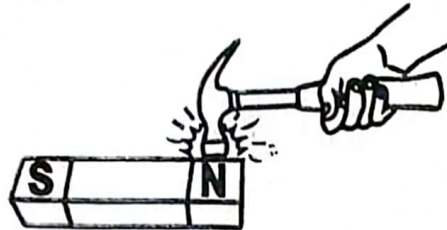


21. How is the left ventricle of the heart well adapted to its function?



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 30cm^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 within veins.
-

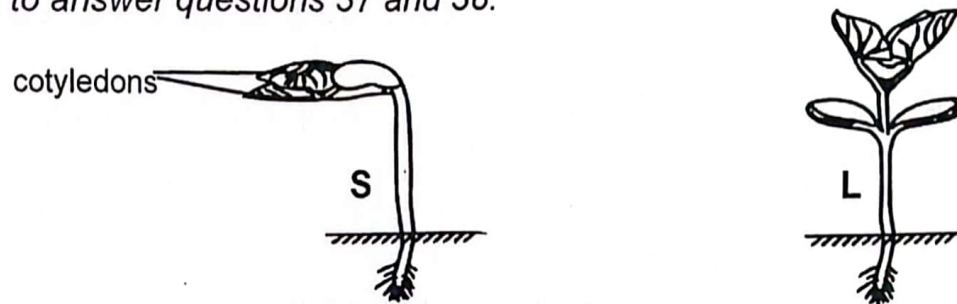


33. How does uncontrolled bush burning affect the environment?

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.



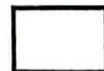
36. Identify the type of germination drawn above.

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

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

39. In which way is a VIP latrine made in order to reduce a bad smell in it?

40. Name any **one** plant that has the pinnate compound leaf.



SECTION B : 60 MARKS

Questions 41 to 55 carry four marks each.

41. (a) Give any **two** ways food can get contaminated.

i) _____

ii) _____

(b) In which **two** ways can food contamination be controlled at home?

i) _____

ii) _____



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

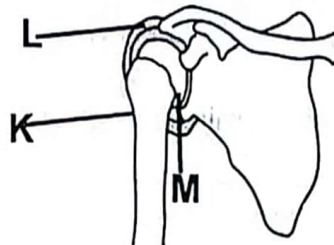
(b) State the importance of a vacuum seal on a thermos flask.

(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) _____



45. 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) _____

46. 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.

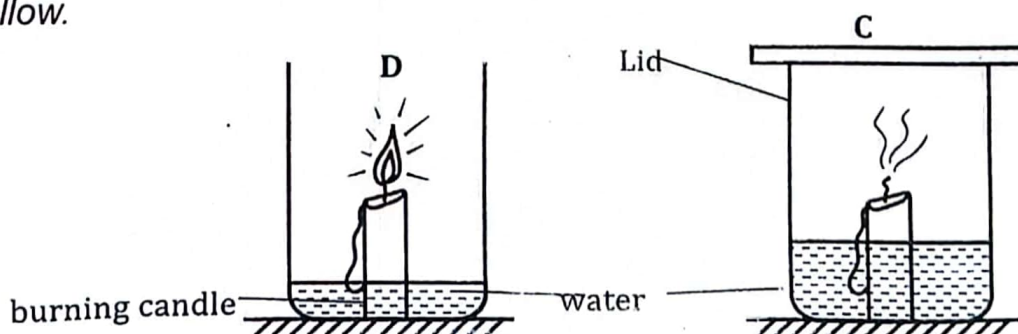
i) vegetables _____

ii) stem tubers _____

iii) legumes _____

iv) bulbs _____

47. 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.



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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?

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

i) _____

ii) _____

b) State **two** dangers of dumping plastic materials on the soil.

i) _____

ii) _____

49. a) Apart from planting stem cuttings, give **two** other methods of artificial vegetative propagation.

i) _____

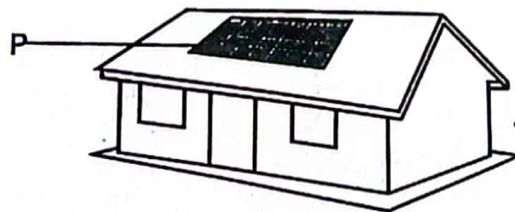
ii) _____

b) Mention **two** advantages of spacing crops during propagation.

i) _____

ii) _____

50. The diagram below shows an item commonly used in rural areas. Study and use it to answer the questions that follow.



(a) Name the item labelled with letter P.

(b) Why do most homes in rural areas have such an item named in (a) above?

(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.

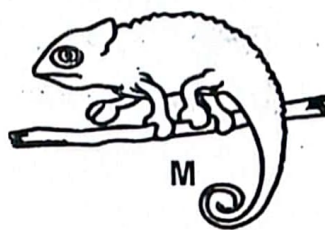
(b) Write any **two** common signs of dysentery among infants.

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.

