

THE SIPRO PLACEMENT TEST - 2022

PRIMARY SEVEN INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.

EMIS No.						Personal No.		

Candidate's Name: _____

Candidate's Signature: _____

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;

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SECTION A: 40 MARKS

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

1. Name the part on a VIP latrine that traps flies till death.

2. In which part of a plant does pollination take place?

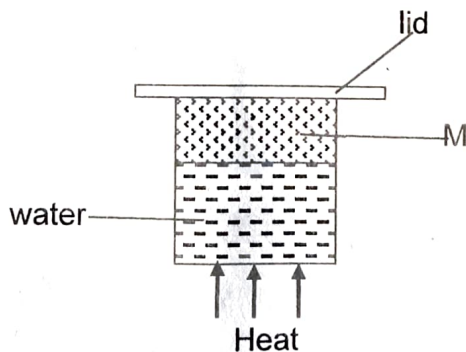
3. What natural change is caused due to swamp drainage?

4. Which characteristic makes termites able to build an anthill in a garden within a very short time?

5. Name the part of the clinical thermometer that plays a similar role as the valves in the mammalian heart.

6. State any **one** way poultry farmers control the easy spread of diseases among their birds.

The diagram below is of an experiment. Study and use it to answer questions 7 and 8.



7. Which physical process leads to the formation of substance **M**.

8. How is the activity above useful to people intending to prepare drinking water?

9. How is a micropyle useful to a germinating bean seed?



10. Apart from deworming, in which other way can hookworm infestation be controlled among infants?

11. In which way does painting prevent rusting in metallic garden tools?

12. Name the type of leaf venation in a banana leaf.

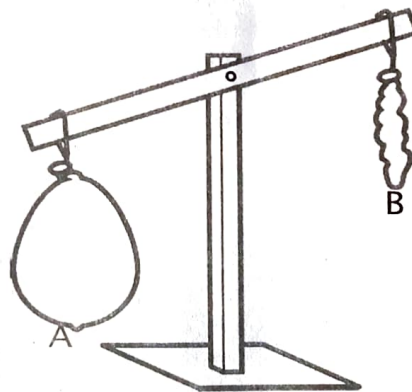
13. State the behaviour of a feather when placed on water.

14. Give **one** way people can use stored sound.

15. Write any **one** danger of wild birds to people.

16. Why is a goat grouped under vertebrates?

The diagram below shows a property of air. Use it to answer questions 17 and 18.



17. Name the property of air shown in the diagram above.

18. Why does balloon **A** move downwards as balloon **B** moves upwards?



19. Which cattle disease can be detected by the use of a strip cup?

20. Name any **one** natural source of sound energy.

21. Where in the body does respiration take place?

22. Which type of energy is possessed by a leaf falling from a tree?

23. State **one** way transpiration is important to a plant.

24. Which bee product helps in the control of marasmus in infants?

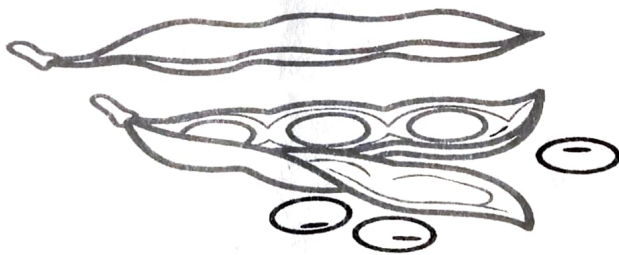
25. How is deoxygenated blood prevented from mixing with oxygenated blood in the heart?

26. Name the class of food whose digestion begins in the duodenum.

27. Why is mulching mostly done during dry season?

28. How does stagnant water contribute to the easy spread of mosquito borne diseases?

The diagram below shows a mode of seed dispersal. Study and use it to answer question 29.



29. Which form of energy enables the mode of seed dispersal shown above to take place?



30. Why can't petrol fire be put out using water?

31. In which **one** way are organisms like earthworms important in the soil?

32. State **one** advice you would give to a person with constipation to overcome it.

33. How does the use of charcoal saving stoves conserve plant life?

34. Why should weaning babies be fed on food rich in Iron?

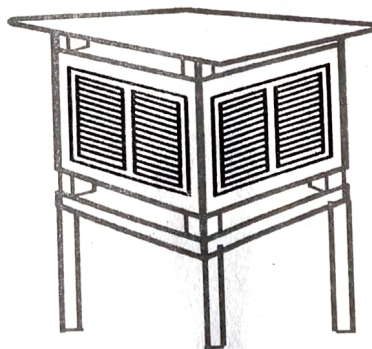
35. Mention any **one** secondary sex characteristic common in both adolescent boys and girls.

36. Give **one** way food contamination is controlled at home.

37. How is reproduction in a scorpion different from that of other invertebrates?

38. Why should litter in a poultry house be changed from time to time?

The diagram below is of a weather equipment. Study and use it to answer questions 39 and 40.



39. Name the weather equipment shown in the diagram above.

40. State the importance of the equipment shown above at a weather station.



SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

41. a) How does sound travel from the source to other areas?

b) State the difference between pitch and volume as used in sound.

c) Write **one** device used in the reproduction of stored sound.

d) Mention **one** way sound energy is useful to people.

42. a) Give **one** reason why rusting is considered to be a chemical change.

b) Apart from rusting, give **two** other examples of chemical changes.

i) _____

ii) _____

c) State **one** danger of rusting in metals.

43. a) How is feeding in a tapeworm different from that in a hookworm?

b) Write **two** dangers of worm infestation in an individual.

i) _____

ii) _____

c) Give **one** way of controlling worm infestation among people.

44. a) Name **two** examples of natural materials in the environment.

i) _____

ii) _____

b) Give **one** example of an item made using each of the materials mentioned in 44 (a) above.

(i) _____

(ii) _____

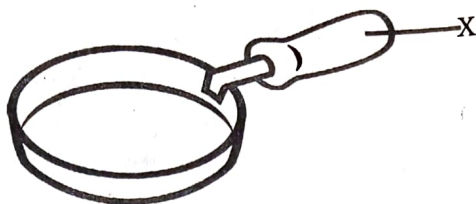


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45. The diagram below shows an item used in the kitchen at home.

Study and use it to answer the questions that follow.



a) State **one** importance of the equipment shown above to people.

b) Why should part **X** be made of an insulator?

c) Which method of heat transfer enables the item above to be used in the kitchen?

d) Give **one** way of caring for the item shown in the diagram above.

46. a) Write any **one** property of pure water.

b) Why should water be boiled before drinking?

c) Which method of preparing clean water dissolves out all the mineral salts?

d) State **one** way water is useful in the body.

47. a) Which blood vessels in the body carry blood towards the heart?

b) Write any **two** uses of blood in the human body.

i) _____

ii) _____

c) Name the mineral salt that helps in the manufacture of blood.



48. a) How do fertilisers improve on the soil fertility?

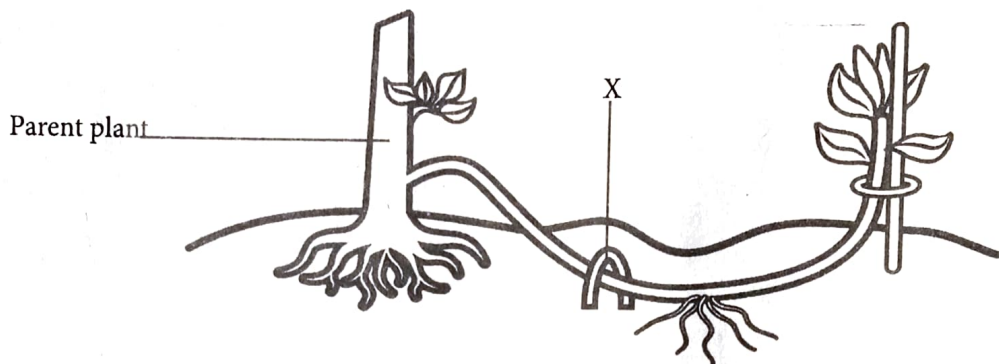
b) Give any **two** methods of applying fertilisers in the garden.

(i) _____

(ii) _____

c) Write **one** danger of artificial fertilisers to the soil.

49. Below is a diagram showing a method of propagation. Use it to answer the questions that follow.



a) Name the method of vegetation propagation shown in the diagram above.

b) Give the importance of the structure marked X in the diagram.

c) Mention any **two** advantages of vegetative propagation.

i) _____

ii) _____

50. a) Apart from fish, name the other group of cold blooded vertebrates that undergoes external fertilisation.

b) Give the reason why a frog is able to live both on land and in water?



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c) Why does a fish die soon when removed from water?

d) How do fish in fish ponds help in the control of the spread of malaria?

51. a) Name the best season for planting.

b) State the reason why planting is done in the season you have mentioned in (a) above.

c) Besides planting, write **two** other activities done in the same season.

(i) _____

(ii) _____

52. a) Mention any **two** objects whose volume is got using the displacement method.

(i) _____

(ii) _____

b) Which container measures the volume of displaced water in the displacement method?

c) Name the force that enables objects float on water.

53. a) State **one** reason why breastfeeding is recommended for babies.

b) Why is it necessary for a baby to be weaned at the age of three months?

c) State any **two** factors that may lead to bottle feeding other than breast feeding in babies.

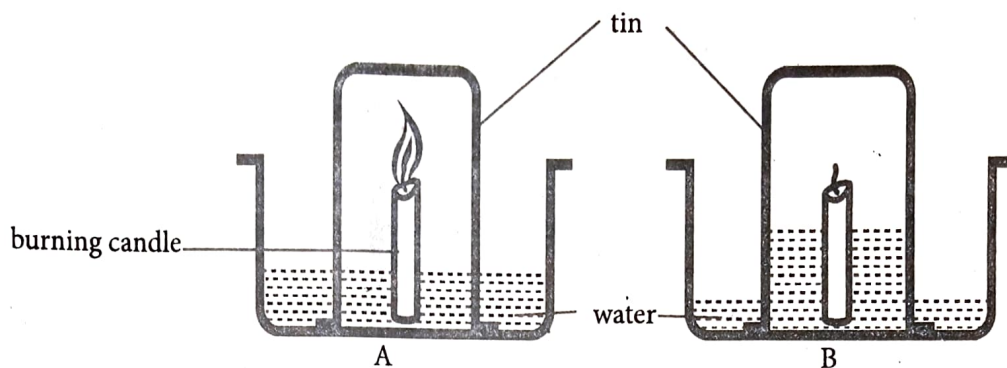
i) _____

ii) _____



54. The diagram below shows an experiment done by primary five class.

Study and use it to answer the questions that follow.



a) What was the experiment about?

b) Why does the candle go off in set up B?

c) How does the lid contribute to the going off of the candle as seen in set up B?

d) Give the reason why the water level rises when the candle goes off.

55. Complete the table correctly by filling in the missing gaps.

Digestive juice	Enzyme present
	trypsin
gastric juice	
	ptyalin
intestinal juice	



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