

# THE SIPRO PRE-PLE SET II 2023

## INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Random No.						Personal No.		
Index 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. Give **one** example of an item which is made from clay.  
\_\_\_\_\_
2. State the method of heat transfer which doesn't require any state of matter.  
\_\_\_\_\_
3. Name the major product obtained from the type of cattle with a rectangular body conformation.  
\_\_\_\_\_
4. State the main cause of night blindness among infants.  
\_\_\_\_\_
5. Why are babies immunised against tuberculosis at birth?  
\_\_\_\_\_
6. Name the process by which plant roots absorb water from the soil.  
\_\_\_\_\_
7. Give **one** way of controlling dehydration in babies.  
\_\_\_\_\_
8. Mention **one** example of a non- renewable resource in the environment.  
\_\_\_\_\_
9. Apart from freezing, state **one** other physical change that takes place due to heat loss.  
\_\_\_\_\_
10. How is East Coast fever similar to heart water in the way they are spread among cattle?  
\_\_\_\_\_



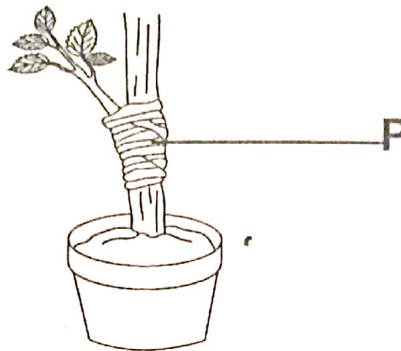
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**P.7 PRE-PLE SET II INTEGRATED SCIENCE 2023**

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

1

The diagram below shows a method of artificial vegetative propagation. Study and use it to answer questions 11 and 12.



11. Identify the method of artificial vegetative propagation shown in the diagram above.

\_\_\_\_\_

12. Name the part labelled with letter **P** in the diagram above.

\_\_\_\_\_

13. Mention any **one** part of the ear which is not involved in the hearing process.

\_\_\_\_\_

14. How can the breeding of mosquitoes be controlled in our homes?

\_\_\_\_\_

15. State the force of attraction which keeps molecules of solids compact.

\_\_\_\_\_

16. Name any **one** form of energy produced by the sun.

\_\_\_\_\_

17. Give the example of a chemical change that allows the formation of humus in the soil.

\_\_\_\_\_





18. Which group of mammals reproduces in the same way as fish?

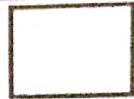
\_\_\_\_\_

19. Name **one** delicate body organ protected by the ribcage.

\_\_\_\_\_

20. State any **one** characteristic of canine teeth which makes them suitable for their function.

\_\_\_\_\_



21. How is umbra different from penumbra in the way they are formed?

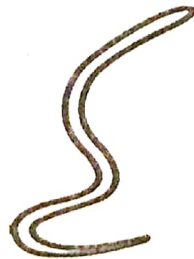
\_\_\_\_\_

\_\_\_\_\_

22. State the type of chicken kept for production of both meat and eggs.

\_\_\_\_\_

**The diagram below is of an intestinal worm. Study and use it to answer questions 23 and 24.**



23. Identify the intestinal worm shown in the diagram above.

\_\_\_\_\_

24. How does the above intestinal worm enter our bodies?

\_\_\_\_\_

25. Name the immunisable disease spread through unprotected sex with an infected person.

\_\_\_\_\_



26. How is a black jack seed adapted to animal dispersal?

27. State any **one** thing that happens to air in the nose.

28. Give **one** disease which affects both rabbits and poultry.

29. How does raising the legs of a person who has fainted help him or her to regain consciousness?

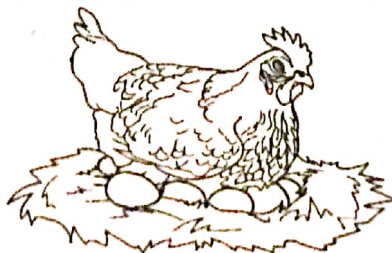
30. Name any **one** root tuber crop which is propagated by the use of stem cuttings.

31. What determines the sinking or floating of an object when placed in a liquid?

32. How are sweat glands useful in the regulation of body temperature on hot days?

33. Give any **one** effect of alcohol to a community.

**The diagram below shows a type of incubation. Study and use it to answer questions 34 and 35.**



34. Identify the type of incubation illustrated in the diagram above.



35. Why are commercial poultry farmers discouraged from using the above type of incubation?

36. Name any **one** example of an invertebrate with a shell segmented body and jointed legs.

37. Apart from the lungs, give any **one** other body organ that eliminates wastes from the body.

38. State the similarity between fish and tadpoles in terms of breathing.

39. Which form of energy is produced by dry cells?

40. Mention **one** characteristic of images formed in a lens camera.

### SECTION B: 60 MARKS

Questions 41 to 55 carry **four** marks each

41. a) State any **two** vectors which spread germs to humans through bites.

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

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

b) Give any **two** ways of preventing such vectors from spreading diseases to humans.

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

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





42. a) Give any **two** energy resources obtained from water.

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

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

b) How are the following energy resources replaced when used?

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

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

43. a) To which group of non-flowering plants do cedar and podo belong?

b) How does the reproduction of cedar and podo differ from that of ferns and liverworts?

c) Give **two** other plants that belong to the same group as cedar and podo.

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

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

44. a) Apart from causing change in states of matter, give **one** other effect of heat gain on matter.

b) Name the change of state which takes place when:

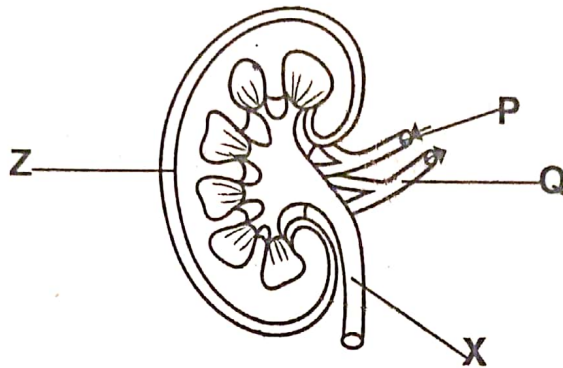
i) a liquid changes to vapour \_\_\_\_\_

ii) a gas changes directly to solid \_\_\_\_\_

iii) a solid changes to liquid \_\_\_\_\_



45. The diagram below shows a human kidney. Use it to answer the questions that follow.



a) Name the blood vessels labelled with letter P and letter Q.

- i) P \_\_\_\_\_
- ii) Q \_\_\_\_\_

b) Where does part marked X drain the substance it transports?

\_\_\_\_\_

c) Which important process takes place in part labelled Z?

\_\_\_\_\_

46. a) Give **two** examples of social insects.

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

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

b) State any **two** ways social insects benefit from working together.

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

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





47. Arrange the following processes in human reproduction in order of their occurrence:

implantation, pregnancy, ovulation, fertilisation

- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- iii) \_\_\_\_\_
- iv) \_\_\_\_\_

48. a) State the commonest way through which HIV/AIDS spreads among people in the community.

\_\_\_\_\_

b) What does letter "A" stand for in ABC as used in the control of HIV/AIDS?

\_\_\_\_\_

c) How does AIDS lower a person's body immunity?

\_\_\_\_\_

d) State **one** way you as a P.7 candidate can avoid catching HIV/AIDS.

\_\_\_\_\_

49. a) Give any **two** causes of dehydration in babies.

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

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

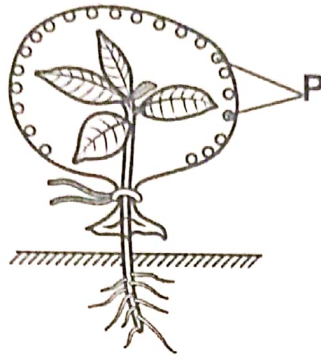
b) What is the use of the following in the Oral Rehydration Solution?

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

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



50. The diagram below shows an experiment carried out by P.4 pupils of a certain school. Use it to answer the questions that follow.



a) What does the above experiment show about plants?

\_\_\_\_\_

b) Name the structures marked with letter P.

\_\_\_\_\_

c) How is the above process important to plants?

\_\_\_\_\_

d) Which process in human beings is similar to that shown in the above diagram?

\_\_\_\_\_

51. a) Give any **two** examples of long bones in the human body.

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

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

b) State the type of joints found at:

i) the knee \_\_\_\_\_

ii) the ankle \_\_\_\_\_



52. a) Give any two elements of weather.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

b) In which way can too much rainfall be of a disadvantage in the environment?

\_\_\_\_\_

c) How is weather forecast useful to crop farmers?

\_\_\_\_\_



53. In the table below, part A shows activities involved in cleaning clothes  
Part B shows the importance of the activities in their wrong order.

A: Activities	B: Importance
soaking	kills germs and parasites in clothes
sorting	reduces excess water in a cloth
wringing	softens clothes and dissolves tough stains
ironing	prevents colour stains in light coloured clothes

Select from the table the correct importance of the activities and write them in the space provided below:

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

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

iii) wringing \_\_\_\_\_

iv) ironing \_\_\_\_\_





54.a) What happens to the diaphragm when;

i) breathing in? \_\_\_\_\_

ii) breathing out? \_\_\_\_\_

b) Where in the lungs does gaseous exchange take place?

\_\_\_\_\_

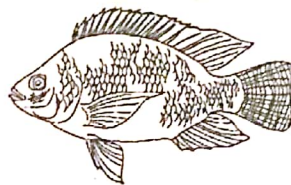
c) Why is there less oxygen in the air we breathe out than in that we breathe in?

\_\_\_\_\_

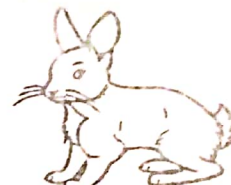
55. The diagrams below show three examples of vertebrates. Study and use them to answer the questions that follow.



J



K



L

a) To which class of vertebrates do animals J and L belong?

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

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

b) Give any **one** similarity common to the above animals.

\_\_\_\_\_

c) How are animals J and K different from animal L in terms of reproduction?

\_\_\_\_\_

\_\_\_\_\_

