

# THE SIPRO PRE-PLE SET IV 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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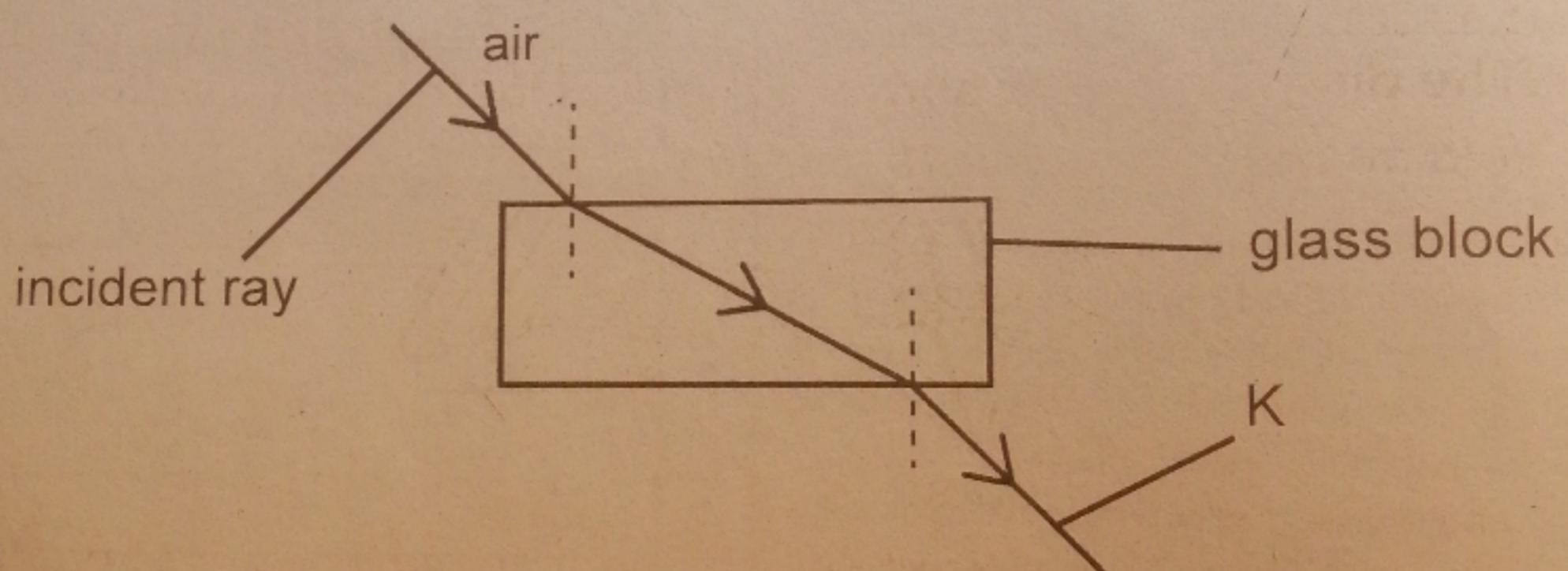
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**SECTION A: 40 MARKS**

Questions 1 to 40 carry one mark each.

1. Mention any one example of a mollusc without a shell.
2. Write the duty of a worker bee in the development of the grub to become a queen.
3. How does the cold water poured on a burnt part reduce the effects of a burn?
4. By what process are clouds formed in a water cycle?

The diagram below shows a ray of light passing through a glass block from air. Use it to answer questions 5 and 6.



5. State the principle of light illustrated in the diagram above.
6. Why does ray marked with letter K bend away from the normal as seen in the diagram above?
7. How does bathing promote the personal hygiene of an individual?
8. Which type of change takes place when salt dissolves completely in water?



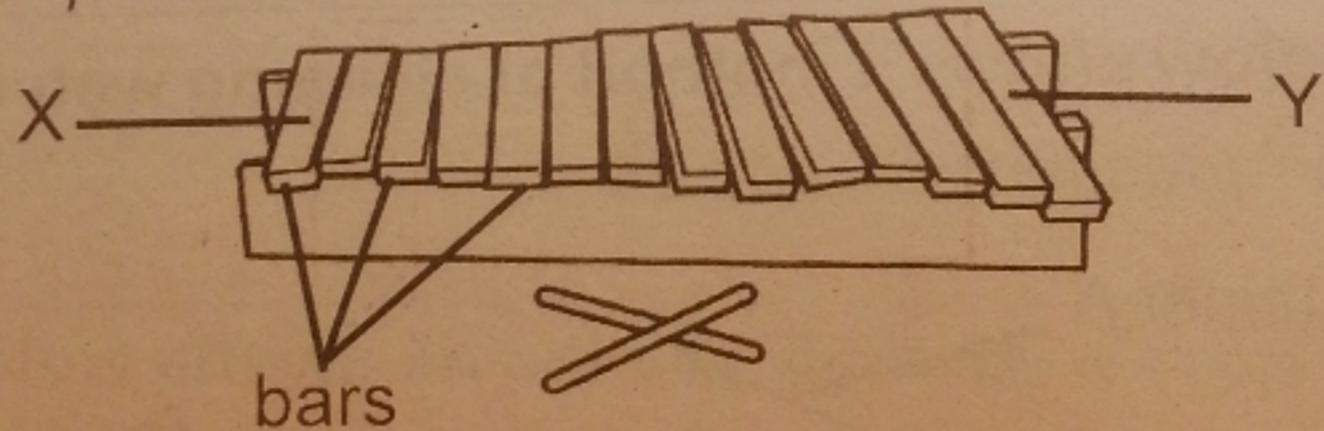
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9. Name the electronic method of preserving fresh fruit.
- 
10. Name the immunisable disease that affects the liver.
- 
11. State the health challenge caused due to poor rubbish disposal in a community.
- 
12. Which method of grazing cattle is commonly used by people living in congested areas?
- 
13. Give the difference in the feeding of hookworms and tapeworms.
- 
14. Mention any **one** emotional change that occurs in adolescents.
- 

**The diagram below shows a musical instrument. Study and use it to answer questions 15 and 16.**



15. What should be done to the instrument above in order to produce sound?
- 
16. State the difference between the sound produced by bar marked with letter X and bar marked with letter Y.
- 
17. How does the frequent eating of sweets contribute to poor oral health?
- 



18. Which excretory organ regulates the sugar levels in blood?

19. Why is shearing of sheep done during the dry season?

20. Mention **one** factor that makes people abuse drugs.

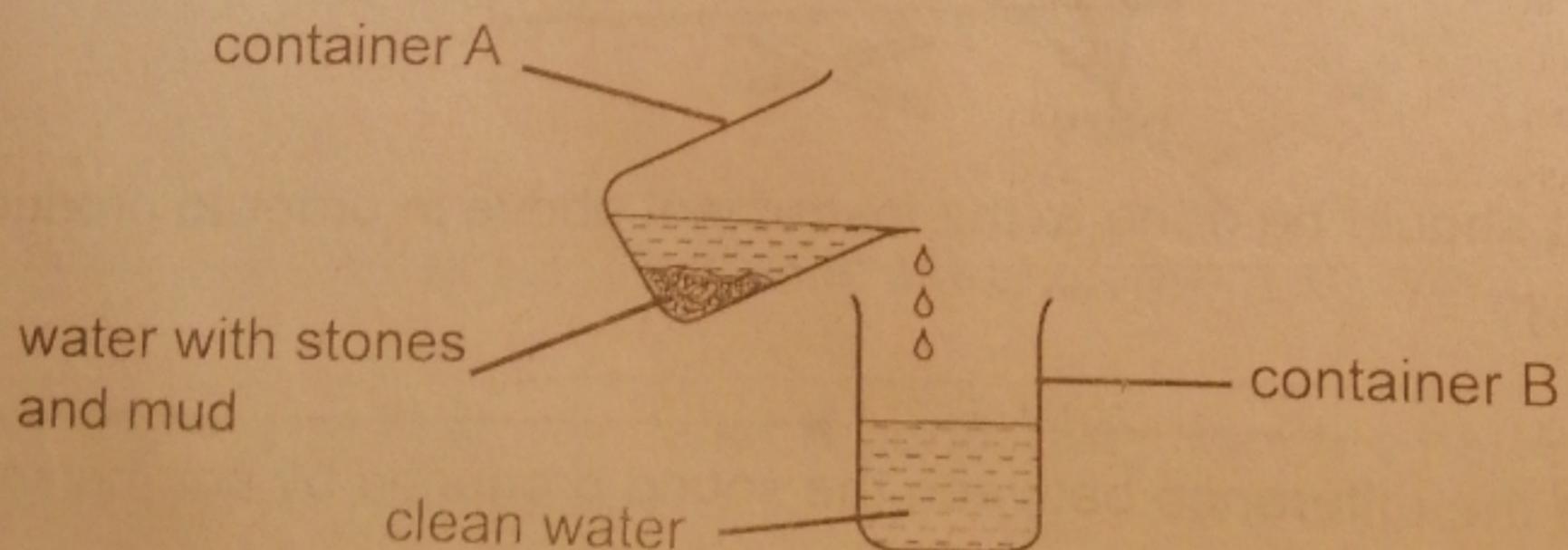
21. What results from the condition of dehydration if not given early treatment?

22. Give **one** advantage of using biogas for cooking.

23. Mention any **one** role played by the tongue during digestion.

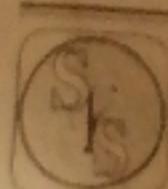
24. Why is it a bad practice to graze very many animals on a small piece of land?

The diagram below shows a method of cleaning water. Study and use it to answer questions 25 and 26.



25. Name the method of cleaning water shown in the diagram above.

26. Why shouldn't water obtained using the above method be recommended for drinking?



27. Mention any one sign of ear canker in rabbits.
28. Why should the squat hole of an ordinary pit latrine be covered when it is not in use?
29. How does irrigation farming control inadequate food supply during prolonged drought?
30. What makes the weight of an object reduce once immersed in water?
- 
31. Apart from carbohydrates, which other class of food is a source of energy to the body?
32. How is the Iris of the eye useful in the regulation of light entering the eye?
33. Name the part of the respiratory system that is affected by choking.
34. How is pollination an important process in the maturity of flowering plants?

**The diagram below shows an activity done by a crop farmer to harvest dry coffee. Study and use it to answer questions 35 and 36.**



35. Name the activity taking place in the diagram above.
- 
36. What name is given to the instrument labelled with letter F?
- 



i. parent plant?

38. In which part of a modern beehive does the queen bee lay its eggs?

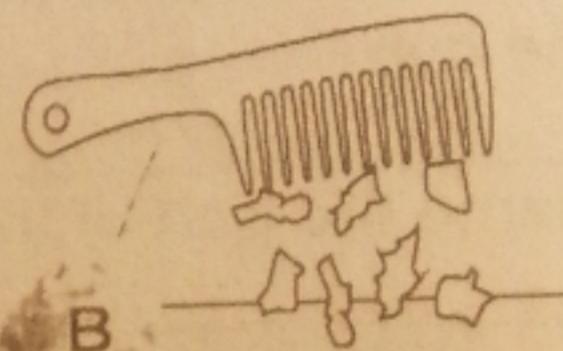
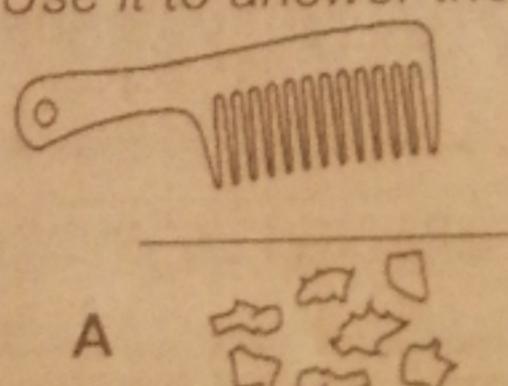
39. How is the use of solar electricity environmentally friendly compared to that of hydroelectricity?

40. How does row planting improve yields among annual crops?

### SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

41. The diagrams below are of an experiment carried out in primary seven. Use it to answer the questions that follow.



(a) Which type of electricity is illustrated in the diagram above?

(b) Why does the plastic comb attract the pieces of paper as shown in diagram B?

(c) Name the example of the electricity illustrated above in nature.

(d) Give one danger of such electricity illustrated above in nature.

42(a) Mention any two ways pests can affect crops in the garden.

(i)

(ii)

(b) Write down two ways of controlling pests without using chemicals.

(i)

(ii)



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43(a) How are the following materials important in a deep litter house?

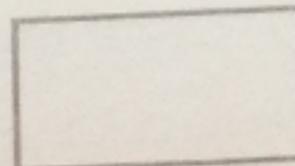
(i) litter \_\_\_\_\_

(ii) feeding trough \_\_\_\_\_

(b) In which **two** ways do poultry farmers benefit from using the deep litter system of keeping poultry?

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

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



44(a) Apart from occupying space, state **two** other characteristics that make a stone be called matter.

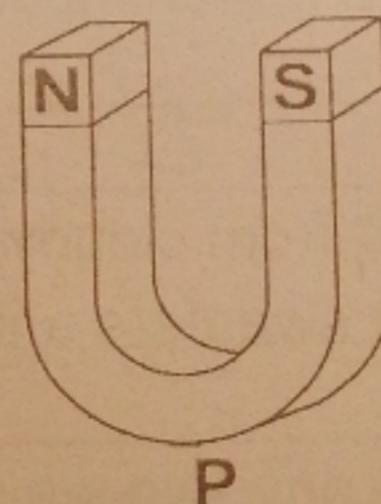
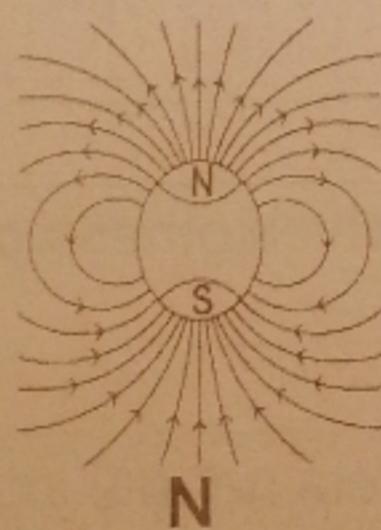
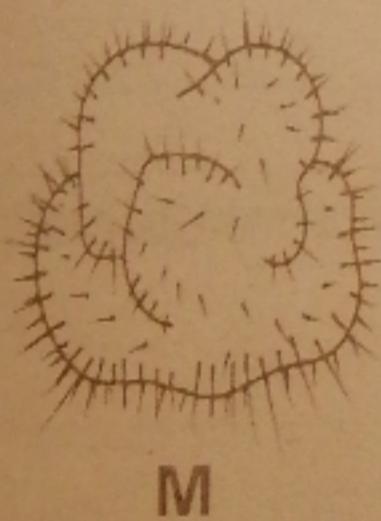
(i) \_\_\_\_\_

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

(b) Why can't the volume of a stone be got by calculating using the length of its sides?

(c) State the behaviour of a stone when placed in a bucket full of milk.

45. The diagrams below show of examples of magnets. Study and use them to answer the questions that follow.



(a) Name the magnets marked with letters **M** and **P**.

(i) **M** \_\_\_\_\_

(ii) **P** \_\_\_\_\_

(b) How is magnet **M** similar to magnet **N**?

\_\_\_\_\_

(c) Use arrows on magnet **P** to show the flow of magnetism.



50. In the t  
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E : R  
tide  
bion  
biog  
geo

Sele  
in the  
i) tide  
ii) bion  
iii) biog  
iv) geo

51. The  
wor

46(a) Name the garden tool used to carry out transplanting.

(b) Why is the above tool the most recommended one for transplanting seedlings?

(c) Why is it important for a farmer to carry out hardening off of seedlings before transplanting them?

(d) State the most suitable time for transplanting ready seedlings.

47(a) Apart from weathering, mention **one** other way in which soil is formed.

(b) Name any **two** organisms that help in the formation of soil.

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

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

(c) Which component of soil is formed through weathering?

48(a) Why are nimbus clouds important to crop farmers?

(b) Apart from nimbus clouds, write any other **two** types of clouds.

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

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

(c) Apart from cloudy weather, which other type of weather makes people wear sweaters and jackets?

49(a) Give any **two** ways a child gets natural immunity.

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

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

(b) Name any **one** dangerous disease that greatly damages the immunity of a person.

(c) How can such a disease in (b) above controlled from spreading?



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50. In the table below, part E shows the resources and part F shows their meaning in their wrong order.

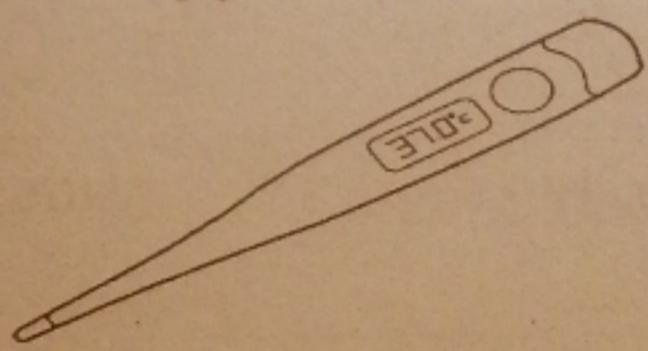
| E : Resources     | F: Their meaning                                      |
|-------------------|---|
| tide              | fuel gas formed through fermentation of animal wastes |
| biomass           | rise and fall of water level in an ocean              |
| biogas            | total amount of living matter in an area              |
| geothermal energy | heat generated from underground                       |

Select from the table the correct meaning of the resources and write them in the space provided below.

- i) tide \_\_\_\_\_
- ii) biomass \_\_\_\_\_
- iii) biogas \_\_\_\_\_
- iv) geothermal energy \_\_\_\_\_

51. The diagrams below show common equipment used by health workers. Study and use them to answer the questions that follow.

A



B



(a) Name the instruments labelled A and B.

(i) A \_\_\_\_\_

(ii) B \_\_\_\_\_

(b) How are the above instruments useful to a health worker?

(i) A \_\_\_\_\_

(ii) B \_\_\_\_\_

52(a) Why is it important to give mouth-to-mouth breathing to a near drowned casualty?

\_\_\_\_\_

(b) Why is a person unable to breathe after near drowning?

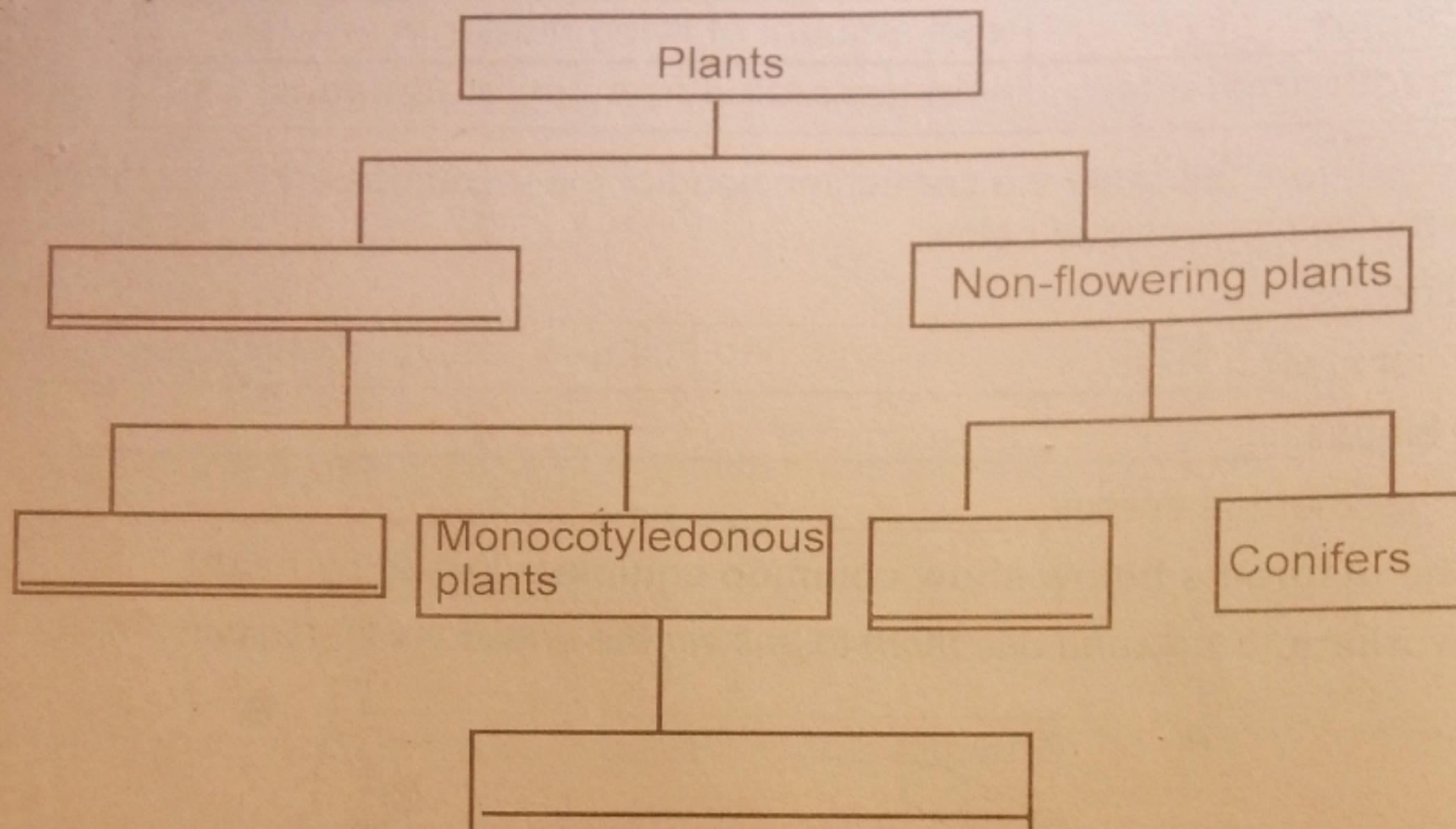
\_\_\_\_\_



(c) State any **two** ways of reducing accidents like drowning and near drowning in our communities.

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

53. Study and complete the table below correctly.



54(a) Mention any **two** major components of a food chain.

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

(b) Write any **two** ways animals depend on other animals for survival.

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

55(a) How is a hoe useful in the control of the spread of malaria?

(b) Write any **two** symptoms of malaria infection in an individual.

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

(c) State the effect of malaria to the circulatory system.



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