

SUREKEY EXAMINATIONS BOARD

PRE-MOCK EXAMINATION

2024

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random NO.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

District ID No. 

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Read the following instruction carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has **two** sections: **A** and **B**  
Section **A** has **40** questions and section **B** has **15** questions. The paper has **16 printed pages** altogether.
3. Answer **all** the questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.
4. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated: **"FOR EXAMINERS' USE ONLY"** and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
QN.NO.	MARKS	EXR'S NO.
1.- 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

## SECTION A: 50 MARKS

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

1. Name the class of food that is suitable for people quarrying stones.  
.....
2. State any **one** factor to consider when selecting a breed of goats to rear at home.  
.....
3. Give any **one** characteristic of seeds that have one cotyledon.  
.....
4. Give any **one** method that people can use to store sound.  
.....
5. How is the pancreas useful during food digestion in the human body?  
.....
6. State any **one** way in which scabies can be controlled among school children.  
.....
7. Give any **one** role of school children in promoting PIASCY programme at school.  
.....
8. Name the part of the respiratory system that helps to prevent choking.  
.....
9. State the reason why a basin is able to hold more water than a cup.  
.....

10. How does hookworm infestation lead to anaemia in human?

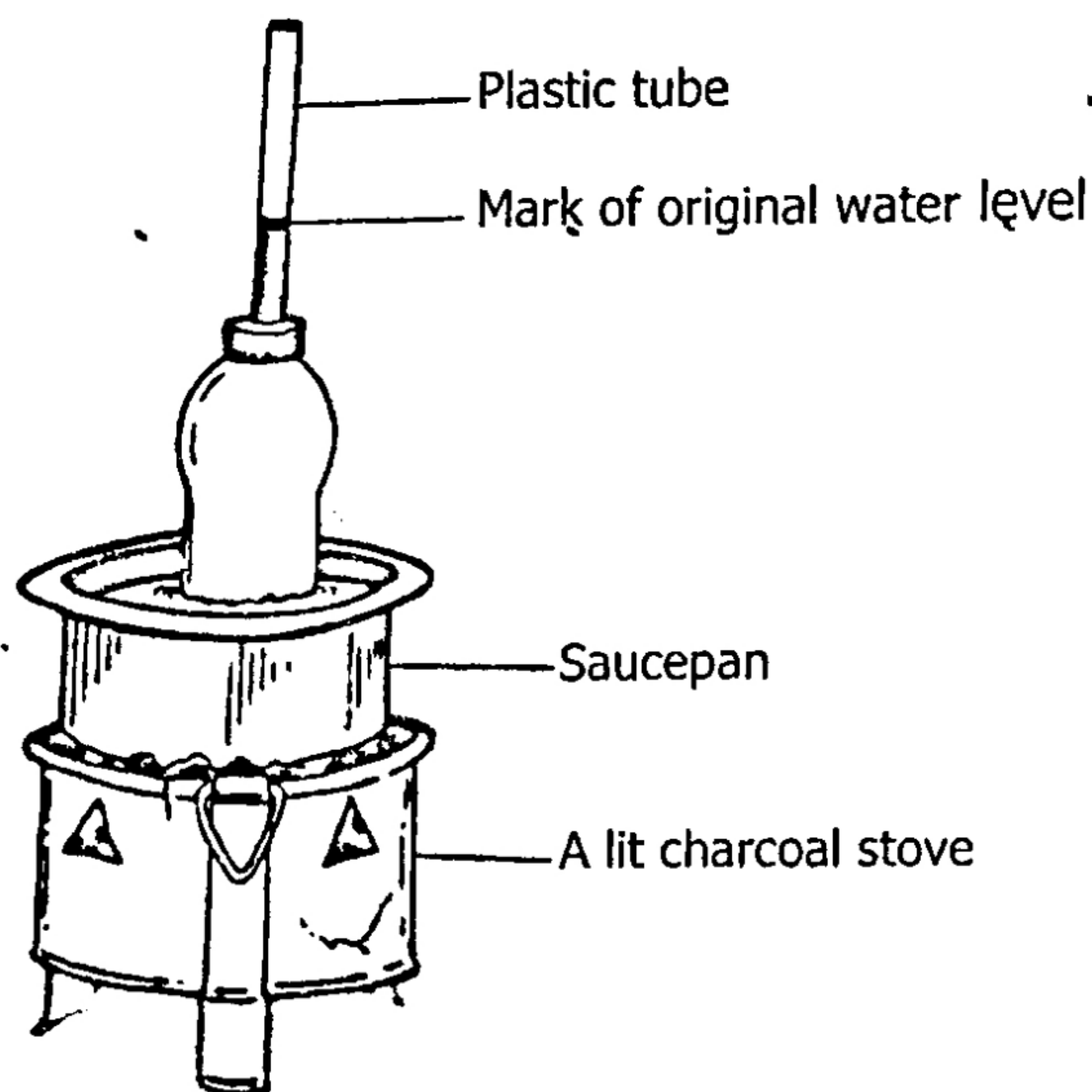
.....



11. State any **one** way in which wind is helpful to a child flying a kite.

.....

The diagram below shows an experiment carried out by primary five pupils to demonstrate the behaviour of a certain state of matter. Use it to answer questions **12** and **13**.



12. Name the state of matter demonstrated in the experiment above.

.....

13. State the reason why primary five pupils demonstrated the experiment above.

.....

.....

14. In which way are ripe pineapples useful to a person brewing alcohol?

.....

.....

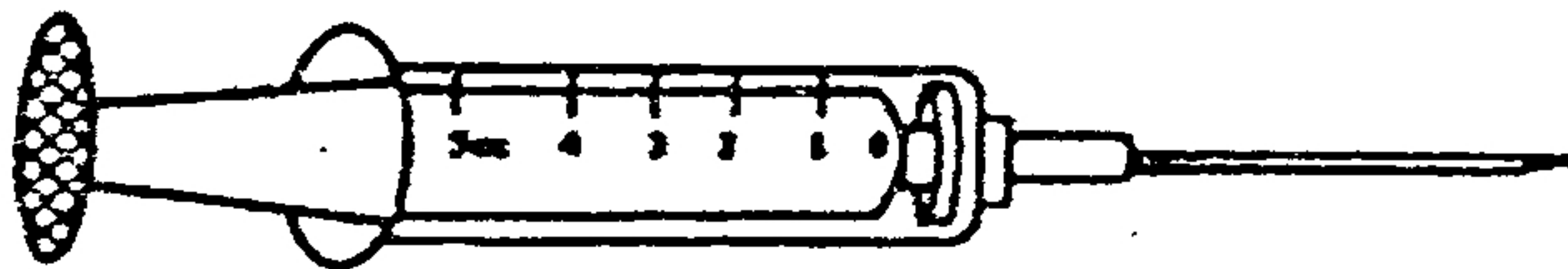
15. State any **one** factor that can lead to rotting of crops in the garden.

.....

16. Name the disease transmitted by rat fleas to people.

.....

The diagram below shows an equipment found on a cattle farm. Use it to answer questions **17** and **18**.



17. Name the equipment shown in the diagram above.

.....

18. Give any **one** cattle management practice that involves the use of the above equipment.

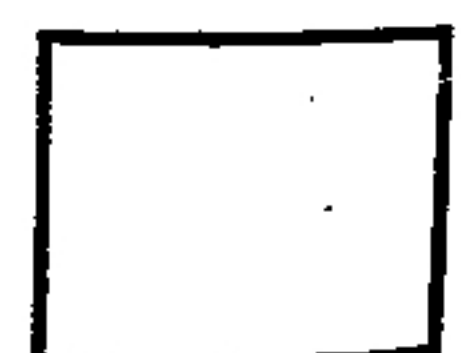
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19. Which agent of soil erosion is controlled by terracing land?

.....

20. Give any **one** factor that can make an individual to lack water in his/her body.

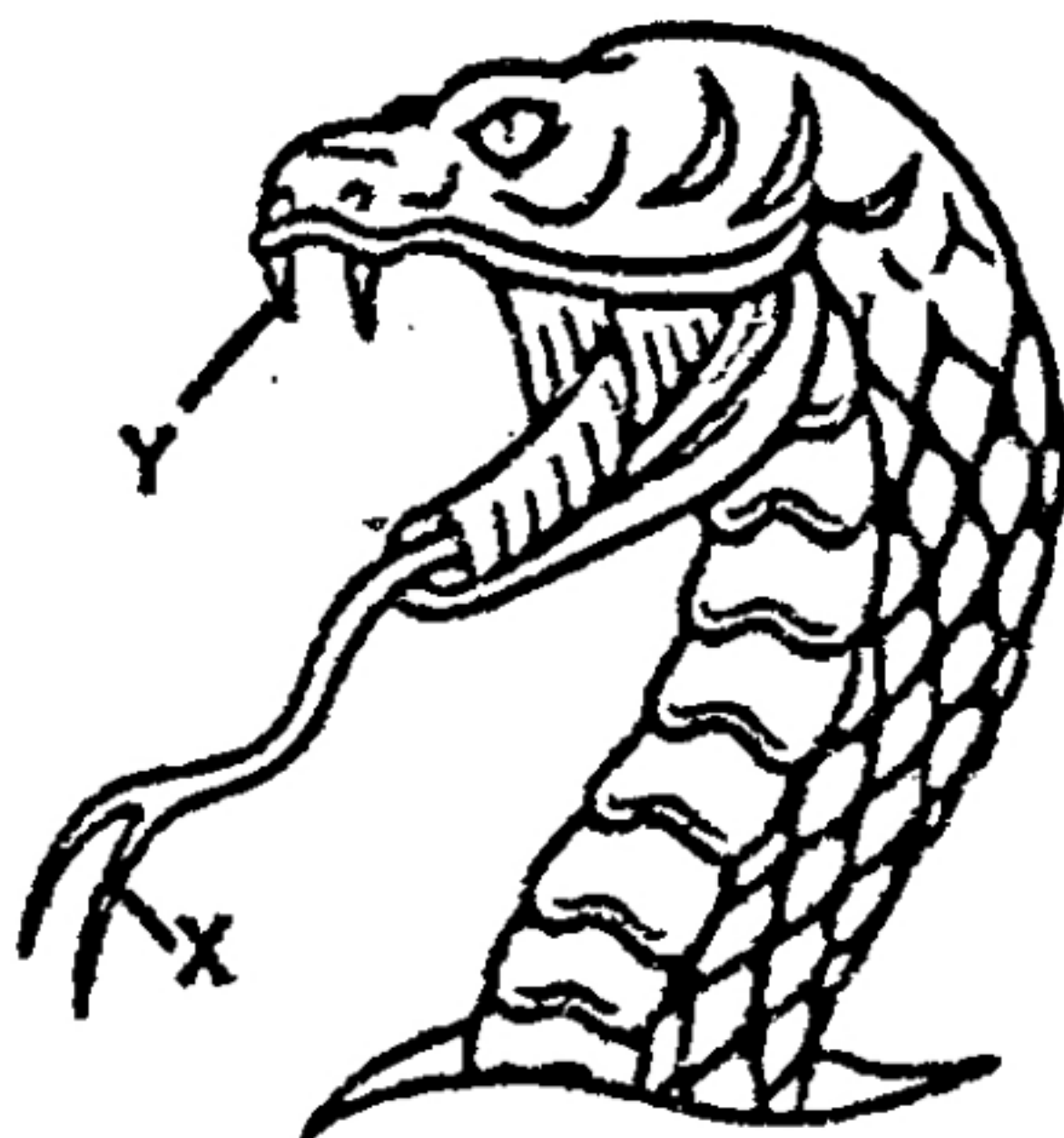
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21. Name any **one** bone that forms the joint at the elbow.  
.....
22. Give any **one** method that can be used to separate liquid mixtures.  
.....
23. State any **one** cause of bad odour in an individual.  
.....
24. Mention **one** way in which charcoal is useful to a person filtering water.  
.....

The diagram below shows a head of a black mamba. Use it to answer questions **25** and **26**.



25. Name the part marked **X**.  
.....
26. Give any **one** way in which part marked **Y** is useful to a black mamba.  
.....  
.....
27. State any **one** way in which the spread of polio can be controlled.  
.....

28. Why does a ball point pen fail to write on a piece of paper smeared with jelly?  
.....
29. Apart from gravity, state any **one** other factor that determines the weight of a brick.  
.....
30. State any **one** effect of eating contaminated food to human health.  
.....
31. Which part of an insect has the same function as the lateral line of a fish?..  
.....
32. Give any **one** way in which a primary four pupil can care for his/her nose.  
.....
33. State any **one** factor to consider when selecting a site for building a residential house.  
.....
34. Name the substance that protects the skin from strong radiations from the sun.  
.....
35. Write down any **one** activity that can be done to control weather disasters in an area.  
.....
36. Name any **one** form of energy that can be reflected.  
.....



37. State any **one** characteristic of seeds dispersed by water.

.....

38. Give any **one** reason why a porcupine is grouped under rodents.

.....

39. Apart from changes of states of matter, name any **one** example of physical changes in the environment.

.....

40. Give any **one** way in which an individual can promote health lifestyles.

.....

.....



**SECTION B: 50 MARKS**

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

41. (a). Give the meaning of the following terms;

(i) Near drowning: .....

.....

(ii) Fainting: .....

.....

(b). Write down any **two** pieces of advice you would give to your fellow pupils to prevent near drowning.

(i) .....

(ii) .....



42. Name the type of natural fertilizer obtained from;

- (a) Household rubbish: .....
- (b) Animal dung: .....
- (c) Dry grass: .....
- (d) Beans leaves: .....

43. A primary four boy wanted to demonstrate a certain process in plants. He wrapped a transparent polythene bag around a plant shoot and put it in sunshine for 12 hours. After 12 hours, droplets of water were seen on the sides of the polythene bag.

- (a) Identify the plant process the boy demonstrated in the above experiment.

.....

- (b) Why did the boy use a transparent polythene bag for the experiment?

.....

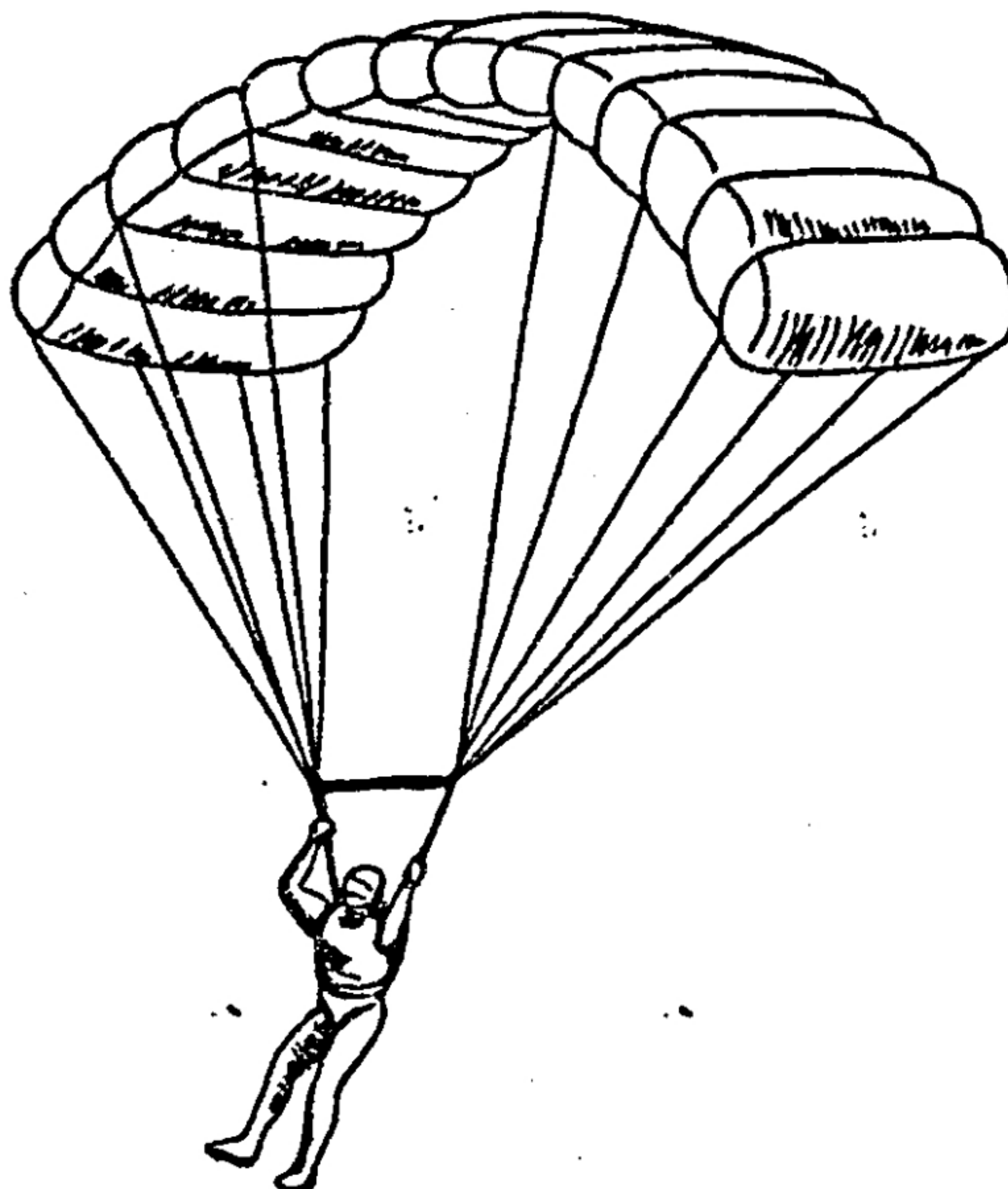
- (c) In the space provided below, draw a diagram to show the experiment demonstrated by the boy about the plant process.

(02 Marks)





44. The diagram below shows a device that uses an energy resource. Study and use it to answer the questions that follow.



- (a) Which energy resource enables the device above to function?

.....

- (b) Give any **one** way in which the device is useful to people.

.....

- (c) Apart from the device above, name any **two** other devices that use the energy resource mentioned in (a) above to function.

(i) .....

(ii) .....

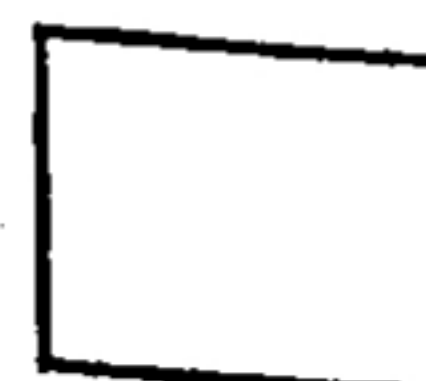
45. (a) Write down any **two** materials transported in the body during blood circulation.
- (i) .....
- (ii) .....
- (b) Which chamber of the heart is made of thick walls?
- .....
- (c) Why is it important for the doctor to monitor the pulse rate of a patient all the time?
- .....
- .....

46. The table below shows changes of state of matter in **part A** and how they take place in **part B**.

<b>Part A: Changes</b>	<b>Parts B: How they take place</b>
Evaporation	Steam changes to water
Melting	Water changes to ice
Freezing	Water changes to steam
Condensation	Ice changes to water

Match correctly the changes of state of matter with the way they take place in the spaces below.

- (i) Evaporation: .....
- (ii) Melting: .....
- (iii) Freezing: .....
- (iv) Condensation: .....



47. (a) Give any **two** sources of iron to a breast-feeding woman.

(i) .....

(ii) .....

(b) State the reason why the breast-feeding woman should eat food rich in iron.

.....

(c) Give **one** way in which the breast-feeding woman can increase milk production in her mammary glands.

.....

48. The doctor prescribed tablets as **2 x 3** for the patient. The patient instead took **1 x 3**.

(a) What term is used to mean the habit practised by the patient?

.....

(b) State any **two** possible reasons why the patient practised the habit above.

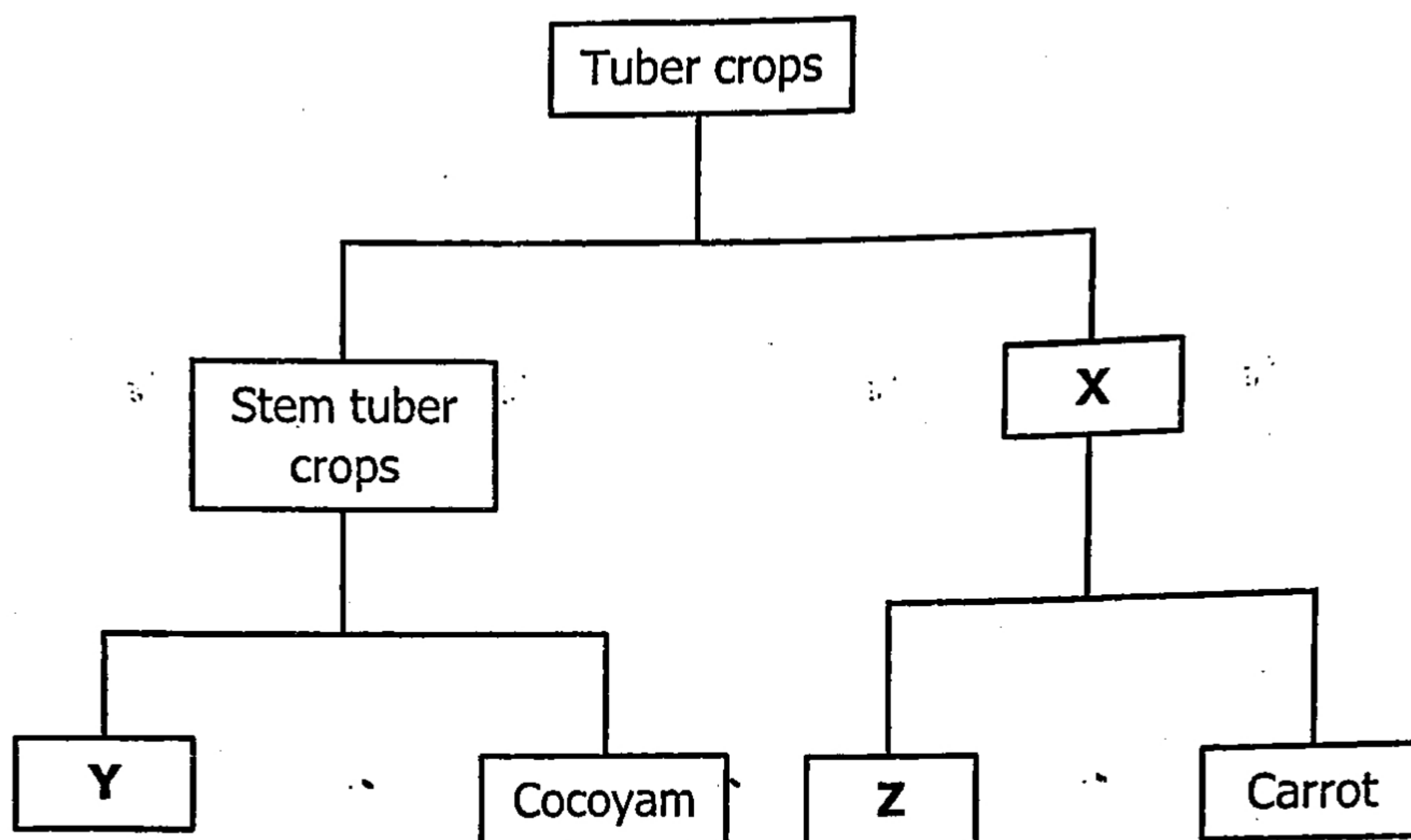
(i) .....

(ii) .....

(c) Give any **one** effect of the above habit practised by the patient to his/her health.

.....

49. The table below shows groups of tuber crops. Study and use it to answer the questions that follow.



- (a) Name the group of tuber crops at **X**.

.....

- (b) Give **two** tuber crops that can be put at **Z**.

(i) .....

(ii) .....

- (c) How is the propagation of a carrot different from that of the tuber crop at **Y**?

.....

.....





50. (a) Name the type of pollination that occurs in;
- (i) pawpaw plant: .....
  - (ii) tomato plant: .....
- (b) State any **two** differences between flowers pollinated by insects and those pollinated by wind.
- (i) .....  
.....
  - (ii) .....  
.....
51. (a) . What is meant by the term infectious diseases?
- .....
- .....
- (b) Write down any **two** infectious diseases that spread through inhaling contaminated air.
- (i) .....  
.....
  - (ii) .....  
.....
- (c) State any **one** way of controlling airborne diseases.
- .....

52. (a) Name the **two** examples of temporary magnets.

(i) .....

(ii) .....

(b) State any **two** characteristics of magnets.

(i) .....

(ii) .....



53. The sentences below show the steps taken to put out petrol fire using a fire extinguisher in wrong order.

(a) Squeeze the handle.

(b) Sweep from side to side.

(c) Pull the pin.

(d) Aim at the base of the fire.

Rewrite the above sentences to show the correct order of using a fire extinguisher to put out fire in the spaces provided below;

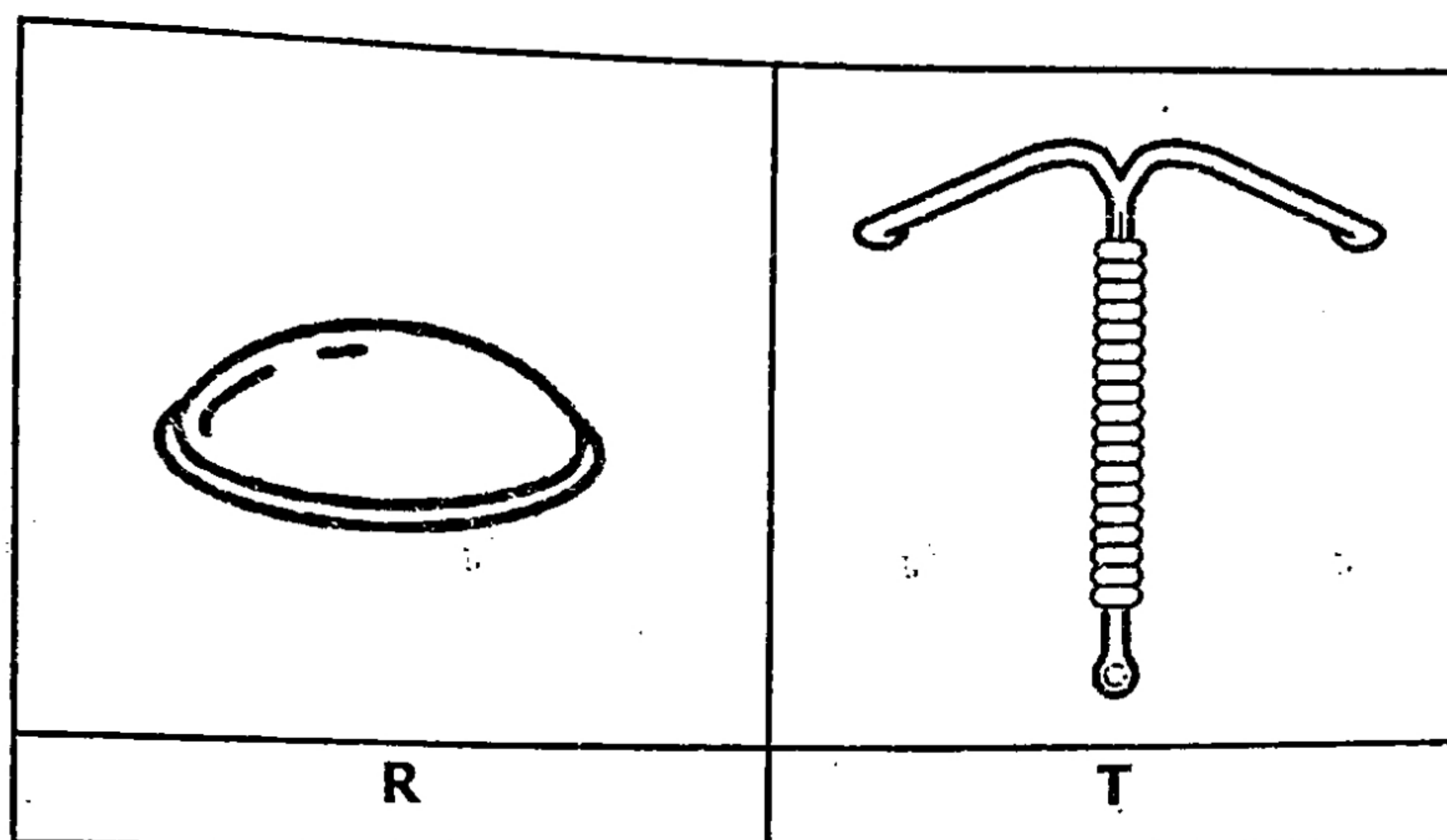
(a) .....

(b) .....

(c) .....

(d) .....

54. The diagrams below show devices used during birth control in women. Study and use them to answer the questions that follow.



- (a) Name the birth control device marked **R** and **T**.

(i) **R** : .....

(ii) **T** : .....

- (b) State **one** way in which device marked **R** is useful to a woman during birth control.

.....

- (c) Which element of Primary Health Care (PHC) is promoted using the devices above.

.....

55. (a) Write down any **two** examples of native beehives.

(i) .....

(ii) .....

(b) State any **two** ways in which a bee keeper can prevent contamination of honey after harvesting.

(i) .....

(ii) .....

