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Answers

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CHAPTER 1

Plant Parts and Functions

50 multiple-choice questions



In this chapter

50 questions, 100 marks. For each question, four options are given. One of them is the correct answer. Write the number of the correct option in the brackets. The answers are on page 121.

- Set A: Check Your Facts: 15 questions
- Set B: Apply the Ideas: 20 questions
- Set C: Experiments and Data: 15 questions

Name: _____ Class: _____ Date: _____

PRIMARY 4 · SCIENCE · PLANT PARTS AND FUNCTIONS

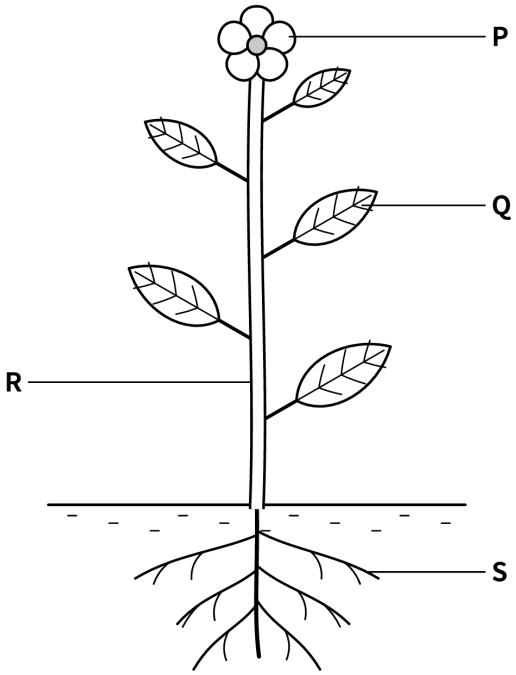
Plant Parts and Functions

INSTRUCTIONS

- 50 questions, 100 marks in total.
- For each question, four options are given. One of them is the correct answer.
- Write the number of the correct option (1, 2, 3 or 4) in the brackets.

Set A: Check Your Facts

1 The diagram shows a plant. Which part, P, Q, R or S, makes food for the plant? ( ) [2]



(1) P (2) Q (3) R (4) S

2 Which of the following do the roots of a plant take in from the soil? ( ) [2]

1. food and water
2. sunlight and air
3. food and mineral salts
4. water and mineral salts

3 A torch is a system. Its battery, bulb and switch work together to give light. In the same way, a plant is a system because _____. ( ) [2]

1. it is made of different parts that work together, each with its own function
2. it has only one part that does every job
3. all its parts have the same function
4. each of its parts works on its own and does not affect the others

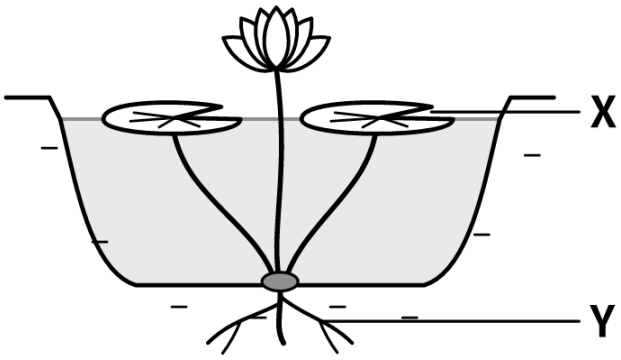
4 The stem of a plant carries _____ from the leaves to all the other parts of the plant. ( ) [2]

1. water
2. mineral salts
3. food
4. sunlight

5 Which of the following do leaves need in order to make food? ( ) [2]

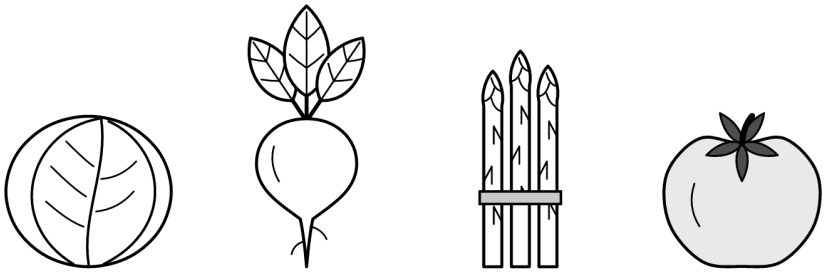
1. sunlight, water and air
2. sunlight, soil and food
3. water, soil and darkness
4. air, food and soil

6 The diagram shows a water lily growing in a pond. Its roots grow in the mud at the bottom of the pond. Which of the following correctly states what parts X and Y do? ( ) [2]



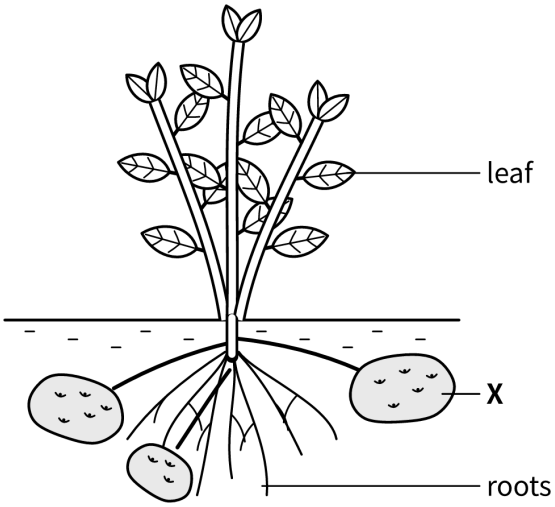
1. X: takes in mineral salts, Y: make food
2. X: makes food, Y: carry food to the leaves
3. X: holds the plant firmly in the mud, Y: take in water
4. X: makes food, Y: take in water and mineral salts

7 The pictures show four foods that come from plants. Which food is a root? ( ) [2]



(1) cabbage (2) radish (3) asparagus (4) tomato

8 The diagram shows a potato plant. The potatoes, X, are swollen with stored food. Which part of the plant is a potato? ( ) [2]

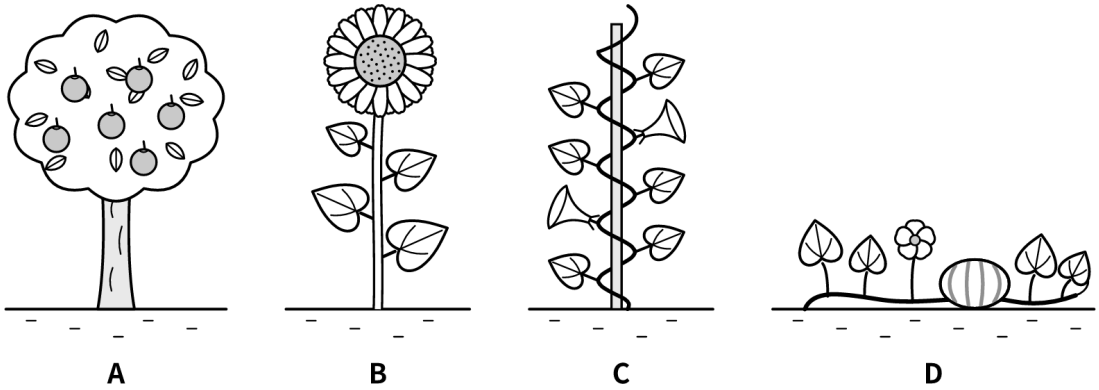


(1) a root (2) a fruit
(3) an underground stem (4) a leaf

9 Siti forgot to water her potted balsam plant for a week. Its leaves and stem became soft and drooped. Which of the following explains this? ( ) [2]

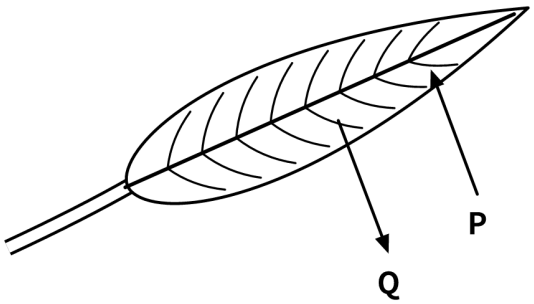
(1) The plant wilted because it did not have enough water.
(2) The plant wilted because it did not have enough air.
(3) The stem drooped because it had stopped making food.
(4) The leaves drooped because they took in too much sunlight.

10 The diagram shows four plants. Which plant, A, B, C or D, has a weak stem and grows along the ground? ( ) [2]



(1) A (2) B (3) C (4) D

11 The diagram shows a leaf in the day. Arrow P shows something from the air going into the leaf. Arrow Q shows something leaving the leaf and going into the air. Which function of a leaf do the arrows show? ( ) [2]

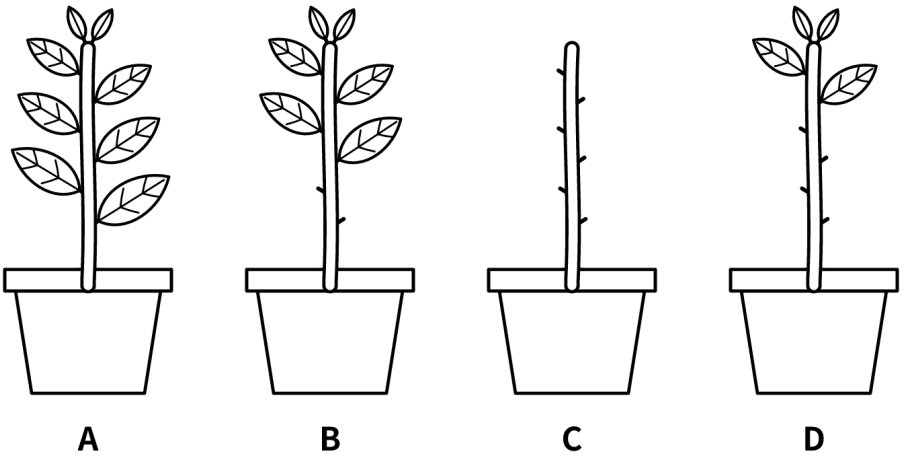


(1) taking in water and mineral salts
(2) holding the plant upright
(3) taking in and giving out gases
(4) carrying food to the roots

12 Rainwater soaks into the soil around a plant. Which of the following shows the path of the water to the leaves? ( ) [2]

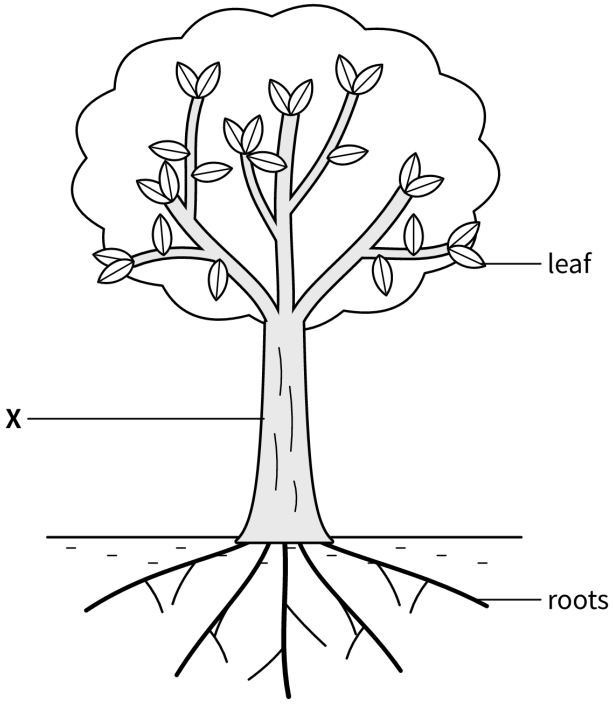
(1) roots → leaves → stem
(2) roots → stem → leaves
(3) stem → roots → leaves
(4) leaves → stem → roots

13 The diagram shows four plants of the same kind. Some or all of the leaves of three plants were cut off. Which plant, A, B, C or D, cannot make food? ( ) [2]



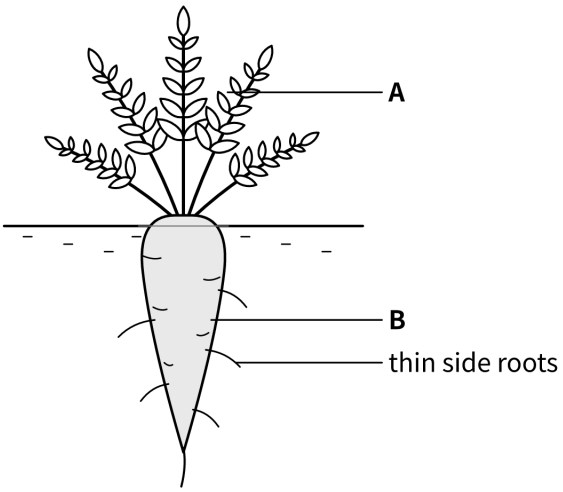
(1) A (2) B (3) C (4) D

14 The diagram shows a rain tree. X is its trunk. What is one function of X? ( ) [2]



(1) It holds the tree upright.
(2) It holds the tree firmly in the soil.
(3) It takes in water and mineral salts from the soil.
(4) It makes food for the tree.

15 The diagram shows a white radish plant. Part B is swollen with stored food. Where was this food made? ( ) [2]



(1) in part B
(2) in part A
(3) in the soil
(4) in the thin side roots

Set B: Apply the Ideas

16 Mr Tan is pulling weeds out of his garden. Weeds with long, spreading roots are much harder to pull out than weeds with short roots. Which function of roots does this show? ( ) [2]

(1) Roots take in water.
(2) Roots take in mineral salts.
(3) Roots hold the plant firmly in the soil.
(4) Roots store food for the plant.

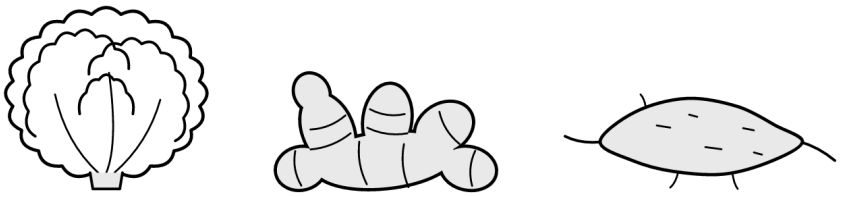
17 On a tea farm, workers pick the young leaves of the tea plants to make tea. They never pick all the leaves of a plant. Why must some leaves be left on each plant? ( ) [2]

(1) to take in water and mineral salts from the soil
(2) to hold the plant upright
(3) to carry water up to the flowers
(4) to make food for the plant

18 A football hit Priya's sunflower plant and snapped its stem in the middle. Two days later, the leaves and flower above the break had wilted, but the leaves below the break were still firm. Why did the parts above the break wilt? ( ) [2]

1. The roots stopped taking in water from the soil.
2. Water could not be carried up the stem past the break.
3. The leaves above the break could not get any sunlight.
4. The roots could no longer hold the plant firmly in the soil.

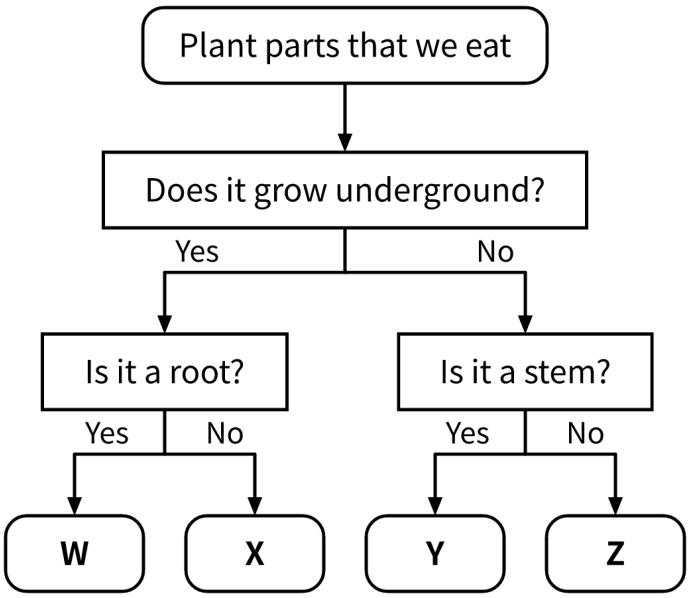
19 Farah's mother cooked lettuce, ginger and sweet potato. Which of the following correctly shows the part of the plant that each food comes from? ( ) [2]



lettuce ginger sweet potato

1. lettuce: leaves, ginger: stem, sweet potato: root
2. lettuce: leaves, ginger: root, sweet potato: root
3. lettuce: stem, ginger: root, sweet potato: stem
4. lettuce: leaves, ginger: root, sweet potato: stem

20 Wei Jie sorted four plant parts that we eat with the flowchart shown. Which of the following could be W, X, Y and Z? ( ) [2]



1. W: potato, X: carrot, Y: asparagus, Z: cabbage
2. W: carrot, X: potato, Y: asparagus, Z: cabbage
3. W: carrot, X: asparagus, Y: potato, Z: cabbage
4. W: cabbage, X: potato, Y: asparagus, Z: carrot

21 A bitter gourd plant climbs up a fence. A watermelon plant grows along the ground. How are the stems of these two plants alike? ( ) [2]

1. They are thick and woody.
2. They store food for the plants.
3. They take in water from the soil.
4. They are weak and cannot hold the plants upright on their own.