

# The World of Plants

- What is a botanical garden?
- A. A place where plants are grown for their study and for public display.
- Define the following with examples: herbs and creepers.
- A. **Herbs:** Plants which are smaller than shrubs and have soft green stems are called as herbs. For example: mint, coriander, spinach, etc.
- **Creepers:** Plants with delicate stems that grow along the ground are called creepers. For example: watermelon, pumpkin, strawberry, etc.

- What are the two systems of a plant? Describe them in brief.
- A. Plant consists of two systems:
  - 1. Root system: It is usually found below the ground. Roots hold the plant firmly to the soil and absorb food and water from the soil.
  - 2. Shoot system: It is usually found above the ground. It consists of stem, branches, leaves, buds, flowers and fruits.

- **What are crops?**
- A. The plants that are grown by farmers, either for food or for other products are called crops.
- **Why are leaves known as the kitchen of plants?**
- A. Plants make their own food and it is the leaves of plants that prepare the food. That is why leaves are called the kitchen of plants.
- **What is photosynthesis?**
- A. The process by which plants produce their food is called photosynthesis.
- **Explain the process of photosynthesis.**
- A. Photosynthesis takes place in the leaves which contain a green pigment called chlorophyll. In this process carbon dioxide from the air combines with water absorbed from the soil in the presence of sunlight to produce food and oxygen. Food is stored in the plant while oxygen is released in the air.

- **How are leaves useful to us?**
- A. Leaves are useful to us in following ways:
  - 1. Some leaves are edible. For example: spinach and mustard.
  - 2. Leaves are also used to make compost, a manure for plants.
  - They also act as inspiration for many artists and designers.
- **Describe the various processes of crop production.**
- A. The various processes of crop production are as follows:
  - 1. **Ploughing**: The process of tilling the land and turning up the soil is known as ploughing.
  - 2. **Sowing**: The process of planting the seeds of a crop is known as sowing.
  - 3. **Watering**: The farmers water the plants regularly and look after them.
  - 4. **Harvesting**: The process of cutting and gathering the ripe crops is known as harvesting.

# Answer in Detail from Book

- 1. Compost is a mixture of ingredients used to fertilize and improve the soil. Compost is made with materials such as dry and dead leaves, twigs, and kitchen waste from plants. They are mixed with soil in a large hollow dug in the ground and left to decay for a few months.
- 2. In dry places, the amount of rainfall is very less. So to survive in such environments, plants have thorns instead of leaves. As leaves have pores through which they lose moisture but thorns have no pores. It helps them to survive with less water in such areas.

Or

In dry places, the amount of rainfall is very less. So to survive in such environments, plants have thorns instead of leaves. Leaves are broader hence they lose more moisture whereas thorns with their smaller size check moisture loss. It helps them to survive with less water in such areas.

Classify the given plants as trees, herbs, shrubs, climbers or creepers...































