

## Getting to Know Plants Textbook Exercises

**Q1. Correct the following statements and rewrite them in your notebook.**

**a) Stem absorbs water and minerals from the soil.**

Ans: Roots absorb water and minerals from the soil

**b) Leaves hold the plant upright**

Ans: Stems hold the plant upright.

**c) Roots conduct water to the leaves.**

Ans: Stem conducts water to the leaves

**d) The number of petals and stamens in a flower is always equal.**

Ans: The number of petals and stamens in a flower may not always be equal.

**e) If the sepals of a flower are joined together, then the pistil is joined to the petal.**

Ans: If the petals of a flower are joined together, then the pistil may or may not be joined to the petal.

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**Q3. Can you find a plant in your house or neighbourhood with a long but weak stem? Write its name. In which category will you place it?**

Ans: Yes, the money plant has a long but weak stem. It comes under the category of climbers.

**Q4. What is the function of a stem?**

Ans: The function of a stem is to conduct water and minerals from the roots to the leaves and other parts of the plant.

**Q5. Which of the following leaves have reticulate venation?**

**Wheat, Tulsi, Maize, Grass, Coriander and China rose.**

Ans: Tulsi, Coriander and China rose have reticulate venation

**Q6. If a plant has fibrous roots, what type of venation do its leaves have?**

Ans: Its leaves will have parallel venation.

**Q7. If a plant has leaves with reticulate venation, what kinds of roots will it have?**

Ans: Plants having reticulate venation will have tap roots.

**Q8. Is it possible for you to find out whether a plant has taproot or fibrous roots by looking at the impression of its leaf on a sheet of paper?**

Ans: Yes, it is possible. If a plant has a fibrous root then its leaves will have parallel venation and if a plant has a taproot then its leaves will have reticulate venation.

**Q9. What are the parts of a flower?**

Ans: The parts of a flower are sepal, petal, stamen and pistil.

**Q10. From the following plants, which of them has flowers?**

**Grass, Maiz, Wheat, Chilli, Tomato, Tulsi, Pepal, Shisham, Banayan, Mango, Jamun, Guava, Pomegranate, Papaya, Banana, Lemon, Sugarcane, Potato, Groundnut.**

Ans: Chilli, Tomato, Tulsi, Mango, Jamun, Guava, Pomegranate, Banana, Papaya.

**Q11. Name the parts of a plant which produces food. Name the process.**

Ans: Leaves are the part of a plant which produces food. The process is called photosynthesis.

**Q12. In which part of a flower, will you find the ovary?**

Ans: We will find the ovary in the lowermost and the swollen part of the pistil.

**Q13. Name two plants in which one has joined sepals and the other has separated sepals.**

Ans: Joined sepals: Periwinkle and China rose

Separated Sepals: Rose and Jasmine.

## **Extra Questions and Answers**

**Q1. What is photosynthesis?**

Ans: The process by which leaves make food for plants in the presence of sunlight, water and carbon dioxide is called photosynthesis.

**Q2. Name the two main types of roots.**

Ans: The two main types of roots are

1. Taproot and

2. Fibrous root

**Q3. What are Tap root and Fibrous root?**

Ans: Tap root: It is the single main root of the plant.

Fibrous root: Roots that do not have a main root but have a bunch of small similar roots are fibrous roots.

**Q4. Define Midrib.**

Ans: A prominent line in the middle of the leaf is called a midrib.

**Q5. What is leaf venation?**

Ans: The design made by veins in a leaf is called leaf venation.

**Q6. What is petiole?**

Ans: The part of the leaf by which it is attached to the stem is called a petiole.

**Q7. What are trees?**

Ans: Trees are very tall, hard and thick-stem plants.

Eg: Mango tree and banyan tree

**Q8. Differentiate between herbs and shrubs.**

Ans:

HERBS	SHRUBS
Stems are green and tender	Stems are hard but not very thick
Usually short in height	usually medium in height
It may have many branches near the base of the stem	Examples are rose, jasmine, hibiscus etc.
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