

NCERT QUESTIONS WITH SOLUTIONS

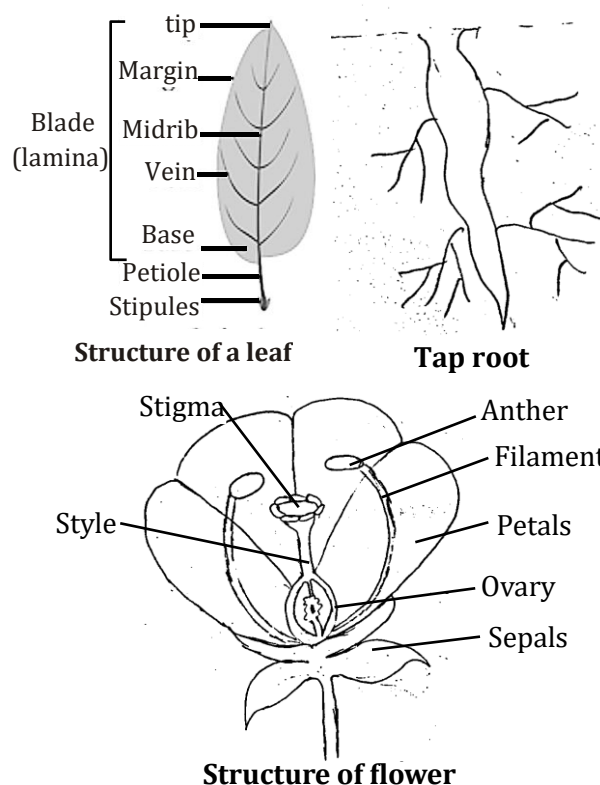
1. Correct the following statements and rewrite them in your notebook.

- (a) Stem absorbs water and minerals from the soil.
- (b) Leaves hold the plant upright.
- (c) Roots conduct water to the leaves.
- (d) The number of petals and sepals in a flower is always equal.
- (e) If the sepals of a flower are joined together, then its petals are also joined together.
- (f) If the petals of a flower are joined together, then the pistil is joined to the petal.

- Ans.**
- (a) Root absorbs water and minerals from the soil.
 - (b) Stem holds the plant upright.
 - (c) Stem conducts water to the leaves.
 - (d) The number of petals and sepals in a flower may be different in different plants.
 - (e) If the sepals of a flower are joined together, then its petals may or may not be joined together.
 - (f) If the petals of a flower are joined together, then the pistil may or may not be joined to the petal.

2. Draw (a) a leaf, (b) a taproot, and (c) a flower.

Ans.



3. Can you find a plant in your house or in your neighbourhood which has a long but a weak stem? Write its name. In which category would you classify it?

Ans. The money plant has a long and weak stem. It comes under the category of climbers. Climbers are plants that readily take support of neighbouring structures as they have a weak stem.

4. What is the function of a stem in plant?

Ans. The main function of a stem in plants is that it helps in the conduction of water and minerals from the roots to the leaves and other parts of plants. It also provides support to branches, leaves, flowers, fruits and buds of plants.

5. Which of the following leaves have reticulate venation?
Wheat, tulsi, maize, grass, coriander (dhania), China rose.

Ans. The leaves of tulsi, coriander and china rose have reticulate venation, whereas maize, grass and wheat have parallel venation.

6. If a plant has fibrous roots, what type of venation are its leaves likely to have?

Ans. Plants with fibrous roots have parallel venation in their leaves. For example, grass, wheat, maize, etc. have fibrous roots with parallel venation in leaves.

7. If a plant has leaves with reticulate venation, then what kind of roots does it have?

Ans. Plants with reticulate venation in their leaves are likely to have tap roots. For example, a carrot or a rose plant has leaves with reticulate venation and its roots are tap roots.

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

Ans. Yes. We can recognize the type of root present in a plant by looking at the impressions of its leaf on a sheet of paper. If a leaf is having reticulate venation then the plant will have tap roots and if a leaf is having parallel venation then the plant will have fibrous roots.

9. Write the names of the parts of a flower.

Ans. A flower consists of sepals, petals, stamens and pistils. A stamen has two parts called the anther and the filament. A pistil has three parts called the stigma, style and ovary.

10. Which of the following plants have you seen? Of those that you have seen, which ones have flowers?

Grass, maize, wheat, chilli, tomato, tulsi, pipal, shisham, banyan, mango, jamun, guava, pomegranate, papaya, banana, lemon, sugarcane, potato, groundnut.

Ans. The given examples are flowering plants. But, in some plants such as tulsi, pipal, sugarcane, etc. the flowers are not visible. They are very small in size.

11. Name that part of plants which produces food. Name this process.

Ans. The part of plants which prepares food is the leaf and the process is known as photosynthesis.

12. In which part of a flower, you are likely to find the ovary?

Ans. Pistil/carpel is the part of the flower that contains the ovary.

13. Name two flowers each with joined and separated sepals.

Ans. Flowers with joined sepals are Cotton and *Hibiscus* (China rose).
Flowers with separated sepals are Rose and Jasmine.