



### GETTING TO KNOW PLANTS

#### EXERCISES

##### Question 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 the flower is always equal.
- (e) If the sepal of a flower are joined together, its petals are also joined together.
- (f) If the petals of a flower are joined together, then the pistil is joined to the petal.

##### Answer 1:

- (a) *Roots* absorb water and minerals from the soil.
- (b) *Stem* hold the plant upright.
- (c) *Stem* conduct water to the leaves.
- (d) The number of petals and sepals in a flower is *not* always equal.
- (e) If the sepals of a flower are joined together, its petals are *separate and not* joined together.
- (f) If the petals of a flower are joined together, then the pistil is *not necessarily* joined to the petal.

##### Question 2:

Draw (a) a leaf, (b) a taproot and (c) a flower, you have studied from table 4.3.

##### Answer 2:



(a) a leaf



(b) a taproot



(c) a flower

**Question 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?

**Answer 3:**

Money plant has a long but weak stem. It is climber.

**Question 4:**

What is the function of a stem in a plant?

**Answer 4:**

Functions of stem in plant:

- ✕ It holds the branches, leaves, flowers and fruits.
- ✕ The stem transports water and minerals from roots to the upper parts.
- ✕ It also transports the prepared food from leaves to other parts.

**Question 5:**

Which of the following leaves have reticulate venation?

Wheat, tulsi, maize, grass, coriander (dhania), china rose

**Answer 5:**

Tulsi, Coriander (Dhania) and china rose.

**Question 6:**

If a plant has fibrous root, what type of venation do its leaves likely to have?

**Answer 6:**

Parallel venation.

**Question 7:**

If a plant has leaves with reticulate venation, what kind of roots will it have?

**Answer 7:**

Taproot.

**Question 8:**

Is it possible for you to recognize the leaves without seeing them? How?

**Answer 8:**

Yes, we can identify the type of leaves by looking at its roots. Plants having leaves with reticulate venation have tap root while plants having leaves with parallel venation have fibrous roots.

**Question 9:**

Write the names of the parts of the flower.

**Answer 9:**

The parts of a flower are sepals, petals, stamens and pistil.

**Question 10:**

Which of the following plants have you seen? Of those that you have seen, which one have flowers?

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

**Answer 10:**

*We have seen the flowering plants:*

- ✕ Grass, maize, wheat, chilli, tomato, tulsi, pipal, banyan, mango, jamun, guava, papaya, banana, lemon, sugarcane, potato.

*Plants having flowers:*

- ✕ Maize, wheat, chilli, tomato, tulsi, pipal, shisham, banyan, mango, jamun, guava, pomegranate, papaya, banana, lemon, potato.

**Question 11:**

Name the part of the plant which produces its food. Name the process.

**Answer 11:**

Leaves produce food for plant with the process of photosynthesis.

**Question 12:**

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

**Answer 12:**

Ovary is located in the lowermost and swollen part of the pistil of flower.

**Question 13:**

Name two flower , each with joined and separate sepals.

**Answer 13:**

*Plants with joined sepals:* Datura and tomato

*Plants with separate sepals:* Lotus and rose