- The stem conducts water from roots to the leaves and other parts and food from leaves to
- The parts of flowers are sepals, petals, stamens and pistil.

## **Textbook Exercise**

- 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, its petals are also joined together.
- (f) If the petals of a flower are joined together, then the pistil is jointed to the petals.
- Ans. (a) Roots absorb water and minerals from the soil.
- (b) **Roots** hold the plant upright.
- (c) Stem conducts water to the leaves.
- (d) The number of petals and sepals in a flower is **usually** equal.
- (e) If the sepals, of a flower are joined together, its pistal may not be usually joined to the petals.

2. Draw (a) a leaf, (b) a tap root and (c) a flower you have studied for Table. main root

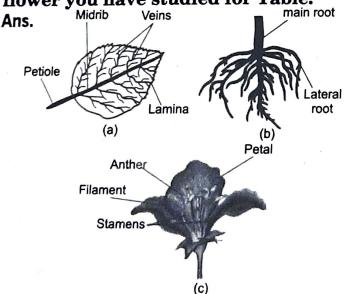


Fig. (a) A leaf, (b) Tap root, (c) A flower

3. Can you find a plant in your house or in your neighbourhood, which has a long

but a weak stem? Write its name, h which category would you classify it? Ans. Yes, there is plant in our house which has a long but a weak stem. This is money plant Its category is climber. Another such plant

4. What is the function of a stem in

## Ans. Functions of the stem:

- (i) The stem hold branches, leaves, flowers
- (ii) The stem is like a two-way street because
- It conducts water and dissolved mineral from roots to leaves and other parts of the
- It conducts food prepared by leaves to storage oranges of the plants.
- (iii) In some plants stem stores food, as in potato, ginger, etc.
- 5. Which of the following leaves have reticulate venation?

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

Ans. Plants with reticulate venation are Tulsi, coriander (dhania) and china rose.

- 6. If a plant has fibrous root, what type of venation do its leaves likely to have? Ans. Parallel venation.
- 7. If a plant has leaves with reticulate venation, what kind of roots will it have? Ans. Tap root.
- 8. Is it possible for you to find out whether a plant has tap root or fibrou root by looking at the impression of it leaf on a sheet of paper?

Ans. yes, the impressions of a leaf on a sheet of paper give a clear picture of venation of the leaf. If the leaf of the plant has reticulate venation it would have tap root. But if the lea has parallel venation the plant would have fibrous roots.

9. Write the names of the parts of flower.

Ans. Parts of a flower:

(i) Sepals

(ii) Petals (iv) Pistil or Carpel (jii) Stamen Anther Filament -StyleStigma Ovary

them have flowers? 10. From the following plants, which of

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

jamun, guava, pomegranate, papaya, banana, state are grass, maize, wheat, chilli, tomato, these the plant which I have seen in flowering above. Actually all of these produce flower. Of peepal, have seen all the plants mentioned shisham, banyan, mango,

produce its food. Name this process. Ans. Leaves of a plant produce food. 11. Name the part of the plant which

process is photosynthesis. The

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

the lowermost swollen part of the pistil. Ans. We find ovary in pistil or carpel. Ovary is

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

Petunia. **Ans.** (i) Flowers with jointed sepals : Datura,

(ii) Flowers with separated sepals: Mustard, Cassia (Amaltas).

## Intext Questions (Paheli Boojho)

you think some of them need support to of these plants. How are these different and grape, vines have. Do observe some money plant, bean stalk, gourd plants climb upwards? from a herb, a shrub or a tree? Why do 1. Paheli wonders what kind of stem the

why they need support to climb upward. Ans. All these plants have weak stem that is

- trees because : These are different from herbs, shrubs and
- green tender stem (neither herb, nor shrub their stem is very lengthy but they have

- stem is weak that cannot stand upright.
- not hard. may branch at the base of stem but stem is
- Money plant and gourd plant are climbers.
- Bean stalk, grape wines are twinners. They twines/twist around their support to climb
- at its leaves! he need not pull it out. He just has to look to know what kind of roots a plant has, Boojho has a brilliant idea! If he wants

Ans. Yes, it is true.

- This plants with leaves having reticulate venation have tap roots.
- If the venation the plant would have fibrous root. leaves of a plants have parallel

Exercise

(Based on Student Advisor Textbook)

## **>** Multiple Choice Questions

- primary function of stem? Which of the following IS not the
- (a) Conduction of water
- (b) Photosynthesis
- (c) Formation of branches
- (d) Bears flowers and fruits
- Ņ constitute the female part of the flowers? Which of the following terms
- (a) Sepals, petals and stamen
- (b) Stigma, style and ovary
- (c) Ovary, stamen and stigma
- (d) Ovary, style and stamen
- features would you observe in grass? Which of the following combination
- (a) Parallel venation and fibrous root
- (b) Parallel venation and tap root
- (c) Reticulate venation and fibrous root
- (d) Reticulate venation and tap root
- associate the term midrib? To which organ of the plant would you
- (a) Root
- (b) Stem
- (d) Flowers
- Leaves (c) Leaves lose water in the form of
- vapour in the process of:
- (a) Photosynthesis (b) Transportation (d) Transpiration
- are characteristic of: Green, tender (c) Absorption stem and short hight