

1. **Assertion** : We cannot easily pull out a plant from the soil.
Reason : Roots of a plant hold it firmly in the soil.
2. **Assertion** : It is possible to find out whether a plant has taproot system or fibrous root system by looking at its leaves.
Reason : A plant with reticulate venation in its leaves usually has fibrous root system and a plant with parallel venation in its leaves usually has taproot system.
3. **Assertion** : Stem is like a two way street in a plant.
Reason : Stem conducts water and minerals from roots to leaves and other plant parts (upward) and also conducts food from leaves to roots and other plant parts (downward).

4. **Assertion** : The flat, green portion of the leaf is called lamina.
Reason : Lamina is attached to the stem by a narrow stalk called petiole.
5. **Assertion** : Number of sepals and petals is same in all the flowers of all the plants.
Reason : Sepals and petals are similar in number, colour, shape and size in all the flowers of all the plants.
6. **Assertion** : To test a leaf for the presence or absence of starch, it should be boiled in alcohol/spirit.
Reason : Boiling in alcohol removes the green colour of the leaf and the colour change of leaf after putting iodine solution can be easily observed.
7. **Assertion** : Money plant and beanstalk take support of neighbouring structures for climbing.
Reason : Money plant and beanstalk have weak stems which cannot stand upright.
8. **Assertion** : In reticulate venation, veins are arranged in the form of a network.
Reason : Reticulate venation is present in the leaves of basil, rose and China rose.
9. **Assertion** : During the process of photosynthesis, O_2 is taken in and CO_2 is given out.
Reason : Photosynthesis is mainly carried out by the stem and branches of a plant.
10. **Assertion** : Water comes out of leaves in the form of water vapour by a process called transpiration.
Reason : Transpiration process can be demonstrated by enclosing a leafless twig of a plant in a polythene bag and tying its mouth properly.