

## Morphology of Flowering Plants

### Stem

- Bears branches, leaves, flowers, and fruits
- Conducts water and minerals to all parts of the plant body
- Bears nodes and internodes

# Stem modifications

- For storage Example: Potato, ginger, turmeric.
- For support Tendrils in cucumber, pumpkins, watermelon.
- For protection Thorns in Citrus, Bougainvillea.
- For vegetative propagation Tubers and rhizomes in potato and ginger respectively.

#### Leaf

- Consists of leaf base, petiole, and lamina
  Veins help in the transported of the second se
- Arrange pon coverns is known as
- Parallel venation is found in monocots. Example: Banana
- Reticulate venation is found in dicots. Example: Mango
- Leaves may be simple or compound.
- Pattern of arrangement of leaves on the stem is known as phyllotaxy. It may be alternate as in china rose, opposite as in Calotropis or whorled as in Alstonia.

### Leaf modifications

- Tendrils- Example: Peas
- Spines- Example: Cactus
- Fleshy leaves for storage- Example: Onion and garlic

#### Inflorescence

Arrangement of flowers on the floral axis is termed as inflorescence.