

and identification of flowering plants. This can be illustrated through semi-technical descriptions of families. Hence, a flowering plant is described in a definite sequence by using scientific terms. The floral features are represented in the summarised form as floral diagrams and floral formula.

### EXERCISES

1. How is a pinnately compound leaf different from a palmately compound leaf?
2. Explain with suitable examples the different types of phyllotaxy.
3. Define the following terms:
  - (a) aestivation
  - (b) placentation
  - (c) actinomorphic
  - (d) zygomorphic
  - (e) superior ovary
  - (f) perigynous flower
  - (g) epipetalous stamen
4. Differentiate between
  - (a) Racemose and cymose inflorescence
  - (b) Apocarpous and syncarpous ovary
5. Draw the labelled diagram of the following:
  - (i) gram seed
  - (ii) V.S. of maize seed
6. Take one flower of the family Solanaceae and write its semi-technical description. Also draw their floral diagram.
7. Describe the various types of placentations found in flowering plants.
8. What is a flower? Describe the parts of a typical angiosperm flower.
9. Define the term inflorescence. Explain the basis for the different types inflorescence in flowering plants.
10. Describe the arrangement of floral members in relation to their insertion on thalamus.