Morphology of flowering plants

GPLUS EDUCATION

EXERCISES

- 1. What is meant by modification of root? What type of modification of root is found in the:
 - (a) Banyan tree (b) Turnip (c) Mangrove trees
- 2. Justify the following statements on the basis of external features:
 - (i) Underground parts of a plant are not always roots.
 - (ii) Flower is a modified shoot.
- 3. How is a pinnately compound leaf different from a palmately compound leaf?
- 2. Explain with suitable examples the different types of phyllotaxy.
- 5. Define the following terms:
 - (a) aestivation
- (b) placentation
- (c) actinomorphic

(d) zygomorphic

(g) epipetalous stamen

- (e) superior ovary
- (f) perigynous flower

- 6. Differentiate between
 - (a) Racemose and cymose inflorescence
 - (b) Fibrous root and adventitious root
 - (c) Apocarpous and syncarpous ovary
- Draw the labelled diagram of the following:(i) gram seed (ii) V.S. of maize seed
- \$\square\$ 8. Describe modifications of stem with suitable examples.
 - 9. Take one flower each of the families Fabaceae and Solanaceae and write its semi-technical description. Also draw their floral diagram after studying them.
- 10. Describe the various types of placentations found in flowering plants.
 - 11. What is a flower? Describe the parts of a typical angiosperm flower.
 - 12. How do the various leaf modifications help plants?
 - 3. Define the term inflorescence. Explain the basis for the different types inflorescence in flowering plants.
 - 14. Write the floral formula of a actinomorphic, bisexual, hypogynous flower with five united sepals, five free petals, five free stamens and two united carples with superior ovary and axile placentation.
 - 15. Describe the arrangement of floral members in relation to their insertion on thalamus.