

Exam. Code : 103203

Subject Code : 1304

B.A./B.Sc. 3rd Semester

BOTANY

**Paper—III A (Structure, Development &
Reproduction in Flowering Plants—I)**

Time Allowed—3 Hours]

[Maximum Marks—35

SECTION-I

Note :— Attempt **all** parts of question no. 1. Answer to each part should be of **3-4** lines. Each question carries **1** mark.

1. (i) What is the function(s) of palisade tissue ?
- (ii) What is meant by canopy architecture ?
- (iii) What are the function(s) of cambium ?
- (iv) Distinguish between primary and secondary tissue.
- (v) Define periderm.
- (vi) Name the tissue through which water moves in the plant.
- (vii) Distinguish between odd pinnate and even pinnate leaf.

SECTION-II

Note :— Attempt any **four** questions from this Section. All questions carry 7 marks.

2. Giving suitable examples discuss different types of growth pattern in plants.
3. Discuss in detail diversity in size, shape and arrangement of leaves in plants.
4. Discuss how nodes and internodes are formed in plants. What are the significance of these ?
5. Discuss structure of wood. What makes a wood to conduct water in plants ?
6. Discuss in detail histological organization of shoot apical meristem.
7. Describe diversity in plant form(s). Give suitable examples.
8. Describe the mechanisms by which a plant adapts to water stress.
9. Write a note on secondary vascular tissue structure-function relationship.