

Exam. Code : 103204

Subject Code : 1288

B.A./B.Sc. 4<sup>th</sup> Semester

BOTANY

Paper—IV—B

(Diversity of Seed Plants and Their Systematics—II)

Time Allowed—3 Hours]

[Maximum Marks—35

**Note** :— Attempt **FIVE** questions in all, selecting **ONE** question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. Define/explain the following :

- (a) Alpha taxonomy
- (b) Taxon
- (c) Verticillaster
- (d) Species
- (e) Valid publication
- (f) Phylogenetic system
- (g) Cyathium.

## UNIT—I

2. Describe important rules of botanical nomenclature.
3. Discuss type concept used in plant taxonomy.

## UNIT—II

4. Discuss the role of cytology in plant taxonomy.
5. Describe salient features of Engler and Prantl's system of classification and discuss its merits.

### UNIT—III

6. Enumerate diagnostic features of the following families :
  - (a) Apiaceae
  - (b) Ranunculaceae.
7. Compare floral characters of families Fabaceae and Acanthaceae.

### UNIT—IV

8. Describe floral characteristics of family of Euphorbiaceae.
9. Give comparative account of floral characteristics of families Orchidaceae and Liliaceae.