

Exam. Code : 103203

Subject Code : 1339

B.A./B.Sc. 3<sup>rd</sup> Semester

BOTANY—III (B)

(Diversity of Seed Plants and Their Systematics)

Time Allowed—3 Hours] [Maximum Marks—35

Note :— Attempt *five* questions.. Question 1 is compulsory.1. Attempt *all* parts :

- (a) Define Taxonomy.
- (b) What do you mean by omega taxonomy ?
- (c) Define taxonomic ranks.
- (d) Write merits and demerits of Englar and Prandtl's system of classification.
- (e) Explain polyadelphous condition with example.
- (f) Write diagnostic characters of family Fabaceae.
- (g) Give economic importance of family Brassicaceae.

1×7=7

2. Write a brief account botanical nomenclature. 7
3. Discuss in brief the role of phytochemistry in taxonomy. 7
4. Describe salient features of Bentham and Hooker's systems of classification. 7

5. Write salient features and socioeconomic importance of family Poaceae. 7
6. Describe in technical terms the *Ranunculus* flower. Draw VS and Floral diagram. 7
7. Give a comparative account on Chenopodiaceae and Euphorbiaceae. 7
8. Explain androecium and gynoecium of Acanthaceae and Orchidaceae. 7