

8. Give diagnostic feature of family Malvaceae.

Write floral diagram and floral formula of any member of family. 8

9. Write salient feature and economic importance

family leguminosae. 8



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B. Sc. EXAMINATION, 2025

(Fourth Semester)

(Re-appear Only)

BOTANY

Paper-I

Biology and Diversity of Seed Plants-II

Time : 3 Hours]

[Maximum Marks : 40

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *two* questions from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

1. Answer briefly the following : **8×1=8**

- (a) Who wrote the book 'Genera Plantarum' ?
- (b) Phylogenetics
- (c) Isotype
- (d) Couplet
- (e) Corymbose raceme
- (f) Artificial system of classification
- (g) Floral diagram of malvaceae
- (h) Hypogynous ovary.

Unit I

2. What is Chemotaxonomy ? Discuss the role of chemotaxonomy in relation to taxonomy. **8**

3. Write notes on the following : **2×4=8**

- (a) Binomial Nomenclature
- (b) Role of cytology in relation to taxonomy.

4. What are identification keys ? Explain various types of single access keys. **8**

5. Write note on special types of inflorescence and also give significance of inflorescence. **8**

Unit II

6. Describe Engler's and Prantl's system of classification of angiosperms. **8**

7. Write notes on the following : **2×4=8**

- (a) Economic importance of Poaceae family
- (b) Floral formula and diagram of Hibiscus rosa-sinensis (China rose).