

5224

B. Sc. EXAMINATION

(For Batch 2011 & Onwards)

(Fourth Semester)

BOTANY

Paper I

Biology and Diversity of Seed Plants-II

Time : Three Hours

Maximum Marks : 40

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

1. Define the following :

- (a) Catkin
- (b) Chemotaxonomy
- (c) Syntype
- (d) Species

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(e) *Didynamous*

(f) *Monococious*

(g) *Stylopodium*

(h) *Perianth.*

1+8 8

Unit I

- 2. Define inflorescence and describe various type of special inflorescences. 8
- 3. Write short notes on the following :
 - (a) Cytotaxonomy 4+4
 - (b) Taxonomic ranks.
- 4. Describe various types of taxonomic aids which help in identifying plants. 8
- 5. Write short notes on the following :
 - (a) Type concept 4+4
 - (b) Phylogeny.

Unit II

- 6. Discuss salient features of classification of Angiosperm proposed by Engler and Prantl. 8

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7. Write in brief on the following
- (a) Gynoecium of Leguminosae
 - (b) Androecium of Malvaceae
 - (c) Perianth of Liliaceae
 - (d) Inflorescence of Apiaceae. 2-2-2-2

8. Describe diagnostic features and economic importance of family Asteraceae.

9. Answer the following :

- (a) Write floral formula and draw floral diagram of Solanaceae
- (b) Economic importance of Rutaceae
- (c) Primitive characteristics of Ranunculaceae. 3-3-2