

Roll No.

(07/21-II)

5224

8=8×1

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) Monocious
- (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
 - (b) Taxonomic ranks. 4+4
4. Describe various types of taxonomic aids which help in identifying plans. 8
5. Write short notes on the following :
 - (a) Type concept
 - (b) Phylogeny. 4+4

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. 8

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