

Exam. Code : 107402

Subject Code : 2112

B.Sc. (Bio-Technology) Semester—II

BOTANY—B

Paper—BT-2

Time Allowed—3 Hours] [Maximum Marks—40

Note :— Attempt *all* the questions from Section A, *five* questions from Section B and *two* questions from Section C. Draw neatly labeled diagrams wherever required. Marks for each question are indicated in the paper.

SECTION—A

1. Write about a paragraph (upto $1/2$ of a page) on each of the following : 1×8=8
- (i) Pycniospores
 - (ii) Gemma formation
 - (iii) Actinomorphic
 - (iv) Silicula
 - (v) Legume
 - (vi) Inflorescence
 - (vii) Breeder seed
 - (viii) Isolation distance.

SECTION—B

Note :— Attempt *five* of the following questions, each in about *two* pages of the answer book. $4 \times 5 = 20$

2. Write in detail on Artificial system of classification.
3. Write general characters of Bryophytes.
4. Explain morphological features of *Ranunculus* with diagrams.
5. Write general characters of family Apiaceae with example from your syllabus.
6. Discuss evolutionary status of family Compositae.
7. Discuss morphological characters of any member of family Leguminosae studied by you.
8. Explain different methods used for seed testing.
9. Describe different classes of seeds.

SECTION—C

Note :— Attempt *two* questions from this section, limiting your answer to about *five* pages. $6 \times 2 = 12$

10. Differentiate between Bentham and Hooker's and Hutchinson's system of classification.
11. Elucidate taxonomic description of family *Asteraceae* with *Ageratum* as a typical example.
12. Give the general characters and diagnostic features of the family Poaceae with reference to the genus *Triticum*.
13. What is Seed Biology? Explain process and requirement of seed certification.