

Exam. Code : 107402

Subject Code : 2271

B.Sc. (Bio-Technology) 2nd Semester

BOTANY—B

Paper—BT-2

Time Allowed—Three 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 labelled diagrams wherever required. Marks for each question are indicated in the paper.

SECTION—A

1. Write about a paragraph (upto 1/3 of a page) on each of the following. :— 1×8=8
- (i) Bryophytes with examples
 - (ii) Gynoecium
 - (iii) Silicula
 - (iv) Breeder seed
 - (v) Grain and seed
 - (vi) Zygomorphic
 - (vii) Lemma and glumes
 - (viii) Species.

SECTION—B

Note :— Attempt **FIVE** of the following questions, each in about **2** pages of the answer book. $4 \times 5 = 20$

2. Write salient features of Bentham and Hooker system of classification.
3. Explain morphological features of *Helianthus*.
4. Write general characters of family Leguminosae.
5. Define seed biology. Explain different methods of seed production.
6. Explain reproductive characters of Lichens.
7. Discuss evolutionary status of family Compositae.
8. Discuss vegetative structure of *Ranunculus*.
9. Explain different classes of seeds.

SECTION—C

Note :— Attempt **TWO** questions from this section, limiting your answer to about **5** pages. $6 \times 2 = 12$

10. Differentiate between Natural and Artificial systems of classification.
11. Explain general characters of family Apiaceae with reference to genus *Coriandrum sativum* L.
12. Discuss general characters of genus *Acacia* of family Leguminosae.
13. Explain process and requirement of seed certification.