Exam. Code : 107402 Subject Code 2212

B.Sc. Bio-Technology Semester-II BOTANY-B

Paper-BT-2

Time Allowed—3 Hours [Maximum Marks—40]

Note: Attempt ALL 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

- Write about a paragraph (upto 1/3 of a page) on each of the following:
 - (i) Calyptra
 - (ii) Soredia
 - (iii) Syncarpous
 - (iv) Compound leaves
 - (v) Zygomorphic
 - (vi) Caryopsis
 - (vii) Nucleus seed
 - (viii) Seed viability.

1×8=8

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(Contd.)

SECTION-B

Note: Attempt FIVE of the following questions each in about 2 pages of the answer book.

- Write in detail on Bentham and Hooker's system of classification.
- Describe general characters of Lichens. 3.
- Explain morphological features of Brassica campestris 4. L. with diagrams.
- Write general character of family Lamiaceae with 5. example from your syllabus.
- Discuss evolutionary status of family Orchidaceae. 6.
- Discuss morphological characters of Cassia fistula L. 7. with diagrams.
- What is seed biology? Differentiate between seed and 8. grain.
- Briefly explain various operations followed during 9. seed processing.
- Describe the procedure of seed production in India.

 $4 \times 5 = 20$

SECTION-C

Note: Attempt TWO questions from this Section, limiting your answer to about 5 pages.

- 11. Differentiate between Hutchinson's and Engler and Prantl's system of classification.
- 12. Elucidate taxonomic description of family Asteraceae with Helianthus as a typical example.
- 13. Give the general characters and diagnostic features of the family Orchidaceae with reference to the genus Zeuxine.
- 14. Define seed quality. Explain different tests designed to determine quality of seed. 6×2=12

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