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

- 1. 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

3112(2517)/STB-14042

(vii) Nucleus seed

(viii) Seed viability.

1×8=8

(Contd.)

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