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28832

B.Sc. EXAMINATION, 2025

(First Semester)

BOTANY

Paper II

Cell Biology

Time: 3 Hours [Maximum Marks: 40]

Note: Attempt *Five* questions in all, selecting *two* questions from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

- 1. Write short notes on the following: $2 \times 4 = 8$
 - (i) Aneuploidy
 - (ii) Chromosomal duplication and translocation
 - (iii) Centromere and Telomere
 - (iv) Vacuoles.

Unit I

2. Write notes on structure and function of :

 $4\times2=8$

- (a) Nucleus
- (b) Golgi Apparatus.
- 3. Discuss the structure and functions of plasma membrane in detail.8
- **4.** (a) Explain the functions of Lysosomes and Peroxisomes.
 - (b) Write about structure and functions of chloroplast. $4\times2=8$
- 5. Write notes on the following: $4 \times 2 = 8$
 - (a) Cell wall
 - (b) Mitochondria

Unit II

6. What is Meiosis? Discuss its various stages in detail.8

7. Write short notes on the following: $4 \times 2 = 8$

- (a) Chromosomes
- (b) Chromosomal variations
- 8. Write a detailed note on Chromosomal alterations.
- 9. Explain the following: $4\times2=8$
 - (a) Sex determination
 - (b) Mitosis.
