

Exam. Code : 103202

Subject Code : 1319

B.A./B.Sc. 2nd Semester

BOTANY

Paper—II A (Cell Biology)

Time Allowed—3 Hours]

[Maximum Marks—35

Note :- Attempt any **five** questions from the following.
Question No. 1 is compulsory. All questions carry
equal marks (7 marks each).

1. Write briefly about the following :

- (i) Chromatid
- (ii) Episome
- (iii) Function of nucleolus
- (iv) Genome
- (v) Allopolyploidy
- (vi) Telomere
- (vii) Phospholipids.

2. Describe the different components of the plasma membrane and its functions.
3. Describe the mitochondrial DNA and its functions.
4. What are inversions ? Describe the difference between paracentric and pericentric inversions.
5. Discuss about the characteristic features and functions of the Golgi bodies.
6. How do chromosomal alterations occur in nature ? Explain the phenomena of translocations.
7. Describe the organization of a chromosome.
8. How do polyploids originate ? Discuss its significance in crop plants.
9. Describe the structure and function of a cell wall.