

Exam. Code : 107403

Subject Code : 2263

B.Sc. Biotechnology 3<sup>rd</sup> Semester

CELL BIOLOGY—A

Paper—BT-4

Time Allowed—3 Hours]

[Maximum Marks—40

SECTION—A

Note :- Section—A is compulsory. Attempt ALL questions.

1. Define :

- (i) Cell Theory
- (ii) PPLO
- (iii) Ecology
- (iv) Hot spring
- (v) Cell interaction
- (vi) Cell matrix
- (vii) Membranes
- (viii) Liposomes.

1×8=8

SECTION—B

(Attempt any five questions)

- 2. Discuss the genetically similar cells.
- 3. Discuss the different types of cells.

4. Discuss the ecological amplitudes of cells in sediments.
5. Discuss the ecological amplitudes of hot spring.
6. Discuss the extra cellular matrix.
7. Discuss the molecular mediated cell adhesion.
8. Discuss the architecture of membrane.
9. Discuss the lipids in membranes. 4×5=20

**SECTION—C**

(Attempt any **two** questions)

10. Discuss the solute transport across the membrane.
11. Discuss the regulation of receptors expression in cells.
12. Discuss the different types of cell-cell interactions.

6×2=12