

Exam. Code : 107403

Subject Code : 1840

B.Sc. Biotechnology 3rd Semester

CELL BIOLOGY—A

Paper—BT-4

Time Allowed—Three Hours] [Maximum Marks—40

SECTION—A

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

1×8=8

1. Define :

- (i) Cell types
- (ii) Bacteria
- (iii) Arctic
- (iv) Arid
- (v) Cell signals
- (vi) Expression
- (vii) Transport
- (viii) Solute.

SECTION—B

Note :— Attempt any **FIVE** questions. 4×5=20

2. Discuss the different levels of organization of cells.

3. Discuss the different types of tissues.
4. Discuss the ecological amplitudes of cells in high altitudes.
5. Discuss the ecological amplitudes of brackish water.
6. Discuss the signal transduction.
7. Discuss the membrane receptors.
8. Discuss the model membrane.
9. Discuss the role of liposomes.

SECTION—C

Note :— Attempt any **TWO** questions. 6×2=12

10. Discuss in detail classification of cell types within an organism.
11. Discuss the fresh water ecosystem.
12. Discuss the signal transduction.
13. Discuss in detail the role of biological membranes.