

M.Sc.(Biotechnology) (NEP Pattern) Semester-I
NEP-91 / 01MSCBT01 - Cell Biology

P. Pages : 1

Time : Three Hours



GUG/W/24/15052

Max. Marks : 80

Note : All questions are compulsory and carry equal marks. Draw well labeled diagrams wherever necessary.

- | | | |
|-----------|--|-----------|
| 1. | Describe in detail structure of animal cell and their types. | 16 |
| | OR | |
| | i) Discuss in detail fluid mosaic model of plasma membrane. | 8 |
| | ii) Describe in detail cell walls plant. | 8 |
| 2. | Describe in detail signal transduction in animal tyrosine kinase. | 16 |
| | OR | |
| | i) Give the account of chromosome condensation. | 8 |
| | ii) Discuss in detail cytological events in mitosis. | 8 |
| 3. | Describe in details structure and function of connective tissue. | 16 |
| | OR | |
| | i) Differentiation between meristematic tissue and permanent tissue. | 8 |
| | ii) Describe in detail gap junction. | 8 |
| 4. | Describe in detail A, B and Z forms of DNA structure and function. | 16 |
| | OR | |
| | i) Give the account of secondary structure of protein. | 8 |
| | ii) Discuss roles of chaperones and chaperonins. | 8 |
| 5. | Write in short all compulsory? | |
| | i) Discuss in detail mitochondria. | 4 |
| | ii) Discuss in details cell locomotion. | 4 |
| | iii) Give the account of cell-cell interaction. | 4 |
| | iv) Discuss in detail phospholipids. | 4 |
