

M.Sc.(Biotechnology) (CBCS Pattern) Semester - I
PSBIT101 - Paper-I : Cell Biology

P. Pages : 1

Time : Three Hours



GUG/S/23/11146

Max. Marks : 80

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1. Explain in detail fluid Mosaic Model of plasma membrane? 16
- OR**
- i) Describe in details cell wall of Bacteria? 8
- ii) Describe in detail general structure of plant cell? 8
2. Explain in detail cytological events in mitosis? 16
- OR**
- i) Describe in detail apoptosis? 8
- ii) Discuss in detail signal transduction in animal cell? 8
3. Describe in detail structure and function of meristematic tissue? 16
- OR**
- i) Discuss in detail structure of stomata? 8
- ii) Describe in detail cell to cell interaction? 8
4. Explain in detail structure of Nucleic acid (DNA) and its function? 16
- OR**
- i) Describe in detail secondary structure of protein? 8
- ii) Discuss in details building blocks of cellulose? 8
5. Write in short.
- i) Discuss the structure of mitochondria? 4
- ii) Discuss regulation of cell division? 4
- iii) Describe the structure of parenchyma? 4
- iv) Describe in short Ramachandran plot? 4
