

M.Sc. (Biotechnology) (CBCS Pattern) Sem-I  
**PSBIT101 - Cell Biology Paper-I**

P. Pages : 1

Time : Three Hours



**GUG/W/22/11146**

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw diagram wherever necessary.

- 1.** Explain the general structure of plant cell. **16**
- OR**
- a) Give the structure, function and clinical significance of endoplasmic reticulum. **8**
- b) Discuss the ultrastructure and function of plastids. **8**
- 2.** What is signal transduction? Discuss the process in animal and plant cell. **16**
- OR**
- a) Explain in brief regulation of cell division. **8**
- b) Give an account on Mitosis and its function. **8**
- 3.** What is the cell junction and give the different cell junction molecules. **16**
- OR**
- a) Give the structure and function of muscle tissue. **8**
- b) Explain in brief cell – cell interaction **8**
- 4.** Discuss in details A, B and Z forms of DNA. **16**
- OR**
- a) Write a note on structure of cellulose. **8**
- b) Discuss different models of protein folding. **8**
- 5.** Write a note on.
- a) Fluid Mosaic model. **4**
- b) Draw cell cycle in detail. **4**
- c) Cell adhesion **4**
- d) Phospholipids **4**

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