

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

P. Pages : 1

Time : Three Hours



GUG/W/23/11146

Max. Marks : 80

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

1. Discuss the structure of plasma membrane with respect to the fluid mosaic model. Also give its function. **16**

OR

- a) Write a detailed account of mitochondria. **8**
b) Give comparison between archaebacteria, bacteria and plant cell wall. **8**

2. Discuss in detail cytological events in mitosis and meiosis. **16**

OR

- a) Give an account on signal transduction in plant cell. **8**
b) Give an account of regulation of cell division. **8**

3. Give detail account of cell junction. **16**

OR

- a) Give difference between muscle tissue and nervous tissue. **8**
b) Give detail structure of stomata. **8**

4. Discuss the structure of A, B and Z forms of DNA. **16**

OR

- a) Give primary, secondary and tertiary structures of protein. **8**
b) Give different types of glycosidic linkages. **8**

5. Write short notes on.
- a) Plastids. **4**
b) Cell locomotion **4**
c) Difference between meristematic and permanent tissue. **4**
d) Ramchandran plot. **4**
