

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

P. Pages : 1

Time : Three Hours



GUG/W/23/15052

Max. Marks : 80

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- Notes : 1. All questions are compulsory.
2. Draw the diagram wherever it is necessary.

1. Discuss in detail, the structure of Mitochondria and its function. **16**

OR

- a) Give the structure, function and clinical significance of endoplasmic reticulum. **8**
b) Write note on 'cell types in animal'. **8**

2. Explain the cytological events in mitosis in detail. **16**

OR

Explain in brief:

- a) Signal transduction. **8**
b) Cytoskeleton. **8**

3. Describe the structure and functions of parenchyma and collenchyma. **16**

OR

Write a note on:

- a) Muscle tissue. **8**
b) Connective tissue. **8**

4. Discuss the structural organization of proteins. **16**

OR

Explain in brief.

- a) Structure of phospholipids. **8**
b) Structure of DNA. **8**

5. Write a short note on:

- a) Fluid Mosaic Model. **4**
b) Apoptosis. **4**
c) Cell-cell interaction. **4**
d) Ramchandran plot. **4**
