

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

P. Pages : 1

Time : Three Hours



**GUG/S/25/15052**

Max. Marks : 80

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**1.** Give detail account on animal cell structure and its types. **16**

**OR**

a) Describe about Mitochondria. **8**

b) Give an account on Chlosoplasts. **8**

**2.** Describe cell cycle in detail. **16**

**OR**

a) Discuss signal transduction mechanism in animal cell. **8**

b) Explain about cytoskeleton. **8**

**3.** Discuss in detail about structure and function of nervous tissue and connective tissue. **16**

**OR**

a) Give the information about permanent tissue. **8**

b) Explain about cell junction. **8**

**4.** Explain about various structures of protein. **16**

**OR**

a) Discuss about various forms of DNA. **8**

b) Give an account on structure and importance of Chitin. **8**

**5.** Write short notes on:

a) Lysosomes **4**

b) Apoptosis **4**

c) Cell adhesion **4**

d) Ramachandran plot **4**

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