

M.Sc. (Part-I) (Zoology) (NEP Pattern) Semester-I
NEP-83 / 01MSCZO03 - Paper-III - Cell biology and Genetics

P. Pages : 1

Time : Three Hours



GUG/S/25/15145

Max. Marks : 80

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1. Cell division and cell cycle. 16
- OR**
- a) Passive transport. 8
b) Structure of Golgi complex. 8
2. Give an account on signal transduction pathway. 16
- OR**
- a) Role of different adhesion molecule. 8
b) Cancer and cell cycle. 8
3. Detailed on mendelian and non-mendelian principles. 16
- OR**
- a) Codominance. 8
b) Types of mutation. 8
4. Write an essay on structural and numerical alterations of chromosomes. 16
- OR**
- a) Maternal inheritance. 8
b) Karyotypes. 8
5. Write shorts notes on:
- i) Microfilament. 4
ii) Oncogene. 4
iii) Germinal verses somatic mutation. 4
iv) Gene mapping. 4
