

M.Sc.(Zoology) CBCS Pattern Semester-I
PSCZOOT03 - Paper-III : Cell Biology and Genetics

P. Pages : 1

Time : Three Hours



GUG/W/23/11177

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labelled diagram are necessary.

1. Write membrane structure and transport in detail. 16

OR

- a) Explain Cell cycle.
- b) Write about structural organization of Mitochondria.

2. Explain signal Transduction pathways. 16

OR

- a) Cell-cell communication.
- b) Metastasis.

3. Write a detailed account on types of mutation. 16

OR

- a) Mono & dihybrid inheritance.
- b) Linkage and crossing over.

4. Describe Structural alternations of chromosomes. 16

OR

- a) Cytoplasmic inheritance.
- b) Conjugation in bacteria.

5. Attempt the following. 16

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| a) Microfilaments. | b) Oncogenes. |
| c) Inbreeding. | d) Pedigree Analysis. |
