

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

P. Pages : 1

Time : Three Hours



GUG/S/23/11177

Max. Marks : 80

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- Notes : 1. All questions are compulsory.
2. All questions carry equal marks.
3. Illustrate your answer with suitable diagram.

1. Give an account of cell cycle. 16

OR

Write notes on-

- a) Structure and functions of microtubules.
- b) Structure of mitochondria.

2. Give an account of cellular communication. 16

OR

Write notes on-

- a) Signal transduction pathway
- b) Cell signaling

3. Give an account on Mutation. 16

OR

Write notes on-

- a) Multiple allelism
- b) Heritability

4. Give an account of structural alterations of chromosome. 16

OR

Write notes on-

- a) Cytoplasmic inheritance
- b) Transduction

5. Attempt the followings- 16

- a) Osmosis.
- b) Tumor suppressor genes
- c) Codominance.
- d) Genetic disorders
