



FD-320

M.Sc. 1st Semester
Examination, Dec.-Jan., 2021-22

ZOOLOGY

Paper - III

Population Genetics and Evolution

Time : Three Hours] [*Maximum Marks* : 80

Note : Answer **all** questions in which Question Number 1 is compulsory. All questions carry equal marks.

1. Explain the following in brief :

- (a) Evidences of evolution from palaeontology
- (b) Genetic drift
- (c) Biological concept of species
- (d) Macro evolution

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(Turn Over)

(2)

Unit-I

2. Explain Synthetic theory of evolution.

OR

Describe briefly the evidences of evolution from embryology and physiology.

Unit-II

3. What is natural selection? Give its significance in the process of evolution.

OR

Give an account on molecular variation.

Unit-III

4. Give an account of evolution of Gene families.

OR

What are the genetic alterations and describe human diseases related to them.

Unit-IV

5. Describe evolution of horse.

OR

(3)

What are the 'Ethical' and 'Social' issues in human genetics ? Explain in brief.
