

M.Sc. (Final)
Term End Examination, 2017-18

Paper - I

Biosystematics, Taxonomy and Population Genetics

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 36

Note : Answer **all** questions. All questions carry equal marks.

Unit-I

1. Explain the theories of biological classification.

OR

Write short notes on the following :

- (a) Molecular taxonomy
- (b) Cytotaxonomy

(2)

Unit-II

2. Explain population genetics and evolution.

OR

Describe taxonomic collection and preservation.

Unit-III

3. Explain Hardy-Weinberg law of genetic equilibrium.

OR

Write short notes on the following :

- (a) Migration
- (b) Allopatric and Sympatric Speciation

Unit-IV

4. Describe genetic structures of natural population.

OR

Write short notes on the following :

- (a) Inbreeding depression and heterocyst
 - (b) Met population
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