

AE-781

M.Sc. (Final)

Term End Examination, 2016-17

ZOOLOGY

Paper - I

Biosystematics and Taxonomy

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 importance and application of biosystematics in biology.

OR

Write an essay on Chemotaxonomy.

(2)

Unit-II

2. What do you understand by Taxonomic Keys ?
Explain the different types of taxonomic keys.

OR

Write notes on any **two** of the following :

- (a) Binomial nomenclature
- (b) Association index
- (c) Taxonomic collection

Unit-III

3. Write an essay on Speciation.

OR

Write notes on any **two** of the following :

- (a) Natural selection
- (b) Molecular clocks
- (c) Genetic drift

(3)

Unit-IV

4. Describe genetic and quantitative traits in population.

OR

Write an essay on Metapopulation
