



ED-631

M.Sc. 3rd Semester
Examination, March-April 2021

ZOOLOGY

Paper - III

Environment Physiology and
Population Ecology

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

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

1. Write notes on the following :

- (a) Ecotype
- (b) Mechanism of Adaptations
- (c) Concept of plastic strain
- (d) Oxygen deficient stress

Unit-I

2. Write characteristics of population density.

OR

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(Turn Over)

(2)

Write notes on the following :

- (a) Demography
- (b) Reproductive values

Unit-II

3. Explain features of marine adaptations.

OR

Discuss what are the characteristics of fresh water life.

Unit-III

4. Write an account on stress avoidance, stress tolerance and stress resistance with examples.

OR

Write notes on the following :

- (a) Acclimatization
- (b) Endothermic mechanism

Unit-IV

5. Explain the physiological responses during body exercise.

OR

Write an account on the role of meditation and yoga for stress management.