

Exam. Code : 103202
Subject Code : 1268

B.A./B.Sc. 2nd Semester

ZOOLOGY

Paper—Zoo-II A (Ecology)

Time Allowed—3 Hours] [Maximum Marks—35

Note :—(1) Question 1 in Section A is compulsory.

- (2) **FOUR** questions (long answer) are to be attempted from Section B. Selecting **ONE** question from each of the four units.
- (3) Each question carries equal marks.
- (4) Illustrate your answers with suitable diagrams wherever necessary.

SECTION—A

1. Explain in 2-3 lines :

- (i) Ecological niche
- (ii) Biotic community
- (iii) Phenology
- (iv) Food web
- (v) Ecotoxicology
- (vi) Biotic potential
- (vii) Bioremediation.

SECTION—B**UNIT—I**

2. (a) Describe ecological niche. How this phenomenon plays a role in competition between species ?
(b) Explain the terms weather and climate.
3. Describe biotic and abiotic components of any freshwater ecosystem studied by you.

UNIT—II

4. Write short notes on :—
 - (a) Ecological adaptations in secondary hydrocoles.
 - (b) Bergmans rule.
5. Define primary production. Explain primary productivity of different kinds of ecosystem.

UNIT—III

6. Define ecological succession. Describe the causes, trends and basic types of succession.
7. Give an account of the factors and possible mechanisms of regulation of population growth.

UNIT—IV

8. Give an account of different natural resources with special reference to India.
9. Write explanatory notes on :—
 - (a) Wind power
 - (b) Future of crude oil in the world.