

Exam. Code : 103202

Subject Code : 1312

B.A./B.Sc. Semester—II

ZOOLOGY

Paper—Zoo-II A

(Ecology)

Time Allowed—3 Hours] [Maximum Marks—35

Note :— (1) Total **five** questions are to be attempted.
Q. 1 is compulsory.

(2) **Four** questions are to be attempted, selecting **one** question from each Section. All questions carry equal marks.

(3) Illustrate your answers with suitable diagrams wherever necessary.

1. Explain in 2-3 lines each :
- (i) Ecotone
 - (ii) Biogeochemical cycle
 - (iii) Autecology
 - (iv) Xerocoles
 - (v) Ecological pyramid
 - (vi) Environmental monitoring
 - (vii) Dispersion.

SECTION—I

2. Explain the basic concepts of Ecology.
3. What do you understand by ecosystem energetics ? Describe the energy flow in a typical ecosystem.

SECTION—II

4. (a) Describe the combined concept of limiting factors.
(b) Explain in detail the Liebig's law of minimum.
5. Giving suitable examples discuss the mechanism of ecological adaptations in Hydrophytes.

SECTION—III

6. Define a population. Give a brief account of various characteristics of a population.
7. Write short notes on :
 - (a) Ecological succession
 - (b) Ecological niche.

SECTION—IV

8. Write explanatory notes on the following :
 - (a) Depletion of energy resources
 - (b) Biofuels.
9. Give an account of sources and pollutants of water pollution and describe suitable measures to check water pollution.