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Exam. Code : 103202

Subject Code: 1312

B.A./B.Sc. Semester---II

ZOOLOGY

Paper-Zoo-II A

(Ecology)

Time Allowed—3 Hours] [N

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

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(Contd.)

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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.
- 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.
- Give an account of sources and pollutants of water pollution and describe suitable measures to check water pollution.

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