Exam. Code : 103202

Subject Code: 1340

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

ZOOLOGY ZOO-II A

(Ecology)

Time Allowed—Three Hours] [Maximum Marks—35

Note: -- (1) Question No. 1 is compulsory.

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

SECTION-A

- 1. Explain in 2-3 lines:
 - (i) Ecological hierarchy
 - (ii) Biotic community
 - (iii) Ecological pyramids
 - (iv) Ecosphere

2547(2518)/CTT-1541

1

(Contd.)

- (v) Symbiosis
- (vi) Population dynamics
- (vii) Environmental resistance.

SECTION—B

UNIT-I

- 2. (a) Differentiate between habitat and niche.
 - (b) What is the difference between heat and temperature?
- Give a diagrammatic representation of food web; explain the various food chains in a food web.

UNIT-II

- 4. Write short notes on :
 - (a) Ecological adaptations in xerocoles
 - (b) Warning colourations.
- Define biogeochemical cycles and explain how human activities could affect these cycles.

UNIT—III

- 6. (a) List the characteristics of population.
 - (b) Give a brief account of ecological succession.

2547(2518)/CTT-1541

4

(Contd.)

7. How are the concepts of biotic potential, environmental resistance and carrying capacity related to population growth?

UNIT-IV

- 8. Explain the importance of fresh water; the various uses of water and how it can be conserved.
- 9. Write explanatory notes on:
 - (a) Alternative sources of energy
 - (b) Control of environmental pollution.