



Chaudhary Mahadeo Prasad Degree College
(A Constituent Postgraduate College of Central University of Allahabad)

e-learning module
Questionnaire
Course code BOT 507
Ecology and Phytogeography

Dr. Sarita Srivastava
Assistant Professor
Botany Department

Define

- What is ecology, who coined the term ecology?
- What is a population?
- Define Autecology?
- What is synecology? Who gave the term?
- Define Net Primary Productivity.

MCQs

1. **Which of the following statements holds true or false for a population:**

- A. Birth rate may be zero or positive
 - B. Growth rate may be negative, zero or positive
- I. Only A & C are true and B is false
 - II. Only C is true & a, B are false
 - III. A & B are true and C is false
 - IV. A, B & C are false

2. **Which one of the following options is correct?**

- A. In pond ecosystem pyramid of number is inverted.
 - B. In pond ecosystem pyramid of biomass is inverted.
- I. Only A is true
 - II. Only B is true
 - III. Both A and B are true
 - IV. Both A and B are false

Answer in detail

1. Briefly explain 'Structure of an ecosystem'.
2. What is population density, differentiate between crude and ecological density?
3. Explain relative abundance of a population?
4. In which of the following category would you place "humans" primary, secondary or tertiary consumers and why?
5. Compare Single channel and Two channel Energy Flow models for an ecosystem. Which model is more realistic and why?

Give answers in short

1. Ecological efficiency and its types
2. Significance of P/R ratio in a community
3. Types of succession
4. Models of succession
5. Theories of succession
6. Simpson's index
7. Aggregation and Allee's principle

Answer in short

1. Age structure and distribution in different population.
2. Threatened and endangered species and their conservation strategy
3. Density dependent controls in a population
4. Energetics of succession in seral and climax communities
5. Age distribution and age pyramids
6. Principles of remote sensing and its applications
7. Air pollution and its effect