



**Indira Gandhi National Tribal University,
Amarkantak (M.P.)**

Undergraduate Programmes

Environmental Science

IIIrd Semester Examinations, April - 2023

**Subject – Disciplinary Major - Ecology and
Environment**

Paper Code- EVS-DMT-333

Max Time: 3 Hrs.

Max Marks: 60

Note: *Attempt all five questions. Each question carries 12 marks.*

5X12=60

- 1. Define Population? Describe the characteristics of population?**

Or

What are the structural and functional aspects of an ecosystem?
Give an account of structure and function of an aquatic ecosystem.

- 2. Define competition? Describe the different types of competition with suitable examples.**

Or

What are different types of Population growth forms? Explain the population growth models.

- 3. What is ecological succession? Give an account of general process and succession in a xerarch.**

Or

Explain the concept of invasive species and its effect on ecosystem with suitable examples? Briefly describe the characteristics of invasive plant species?

4. Define biogeochemical cycles? Explain the types of biogeochemical cycles and explain carbon cycle?

Or

Describe the strategies of plant adaptations in aquatic environments?

5. Define Niche and its types? Describe resource partitioning with suitable examples.

Or

Write short notes on:

- | | |
|---------------------|---------------------|
| (a) Ecotypes | (b) Abiotic factors |
| (c) Ecotone | (d) Biomass |
| (e) Nutrient Budget | (f) Biosphere |
