



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

Undergraduate Programmes

Environmental Science

IIIrd Semester Examinations, April - 2023

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

Paper Code- EVS IDMT: 333

Max Time: 3 Hrs.

Max Marks: 60

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

5X12=60

- 1.** Differentiate between population and community? Describe the characteristics of population?

Or

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

- 2.** What are biotic interactions? Explain any three biotic interactions with suitable examples. (12)

Or

Define Population growth? Briefly describe the various population growth models?

3. Define biogeochemical cycles? Explain the types of biogeochemical cycles and explain Nitrogen cycle?

Or

Describe the strategies of plant adaptations in water scarcity and heat?

4. What is ecological succession? Give an account of general process and succession in a hydrarch.

Or

Define invasive species and its effects? Describe the characteristics of invasive plant species?

5. Differentiate between Habitat and Niche? Discuss Niche, and its types in light of suitable examples?

Or

Write short notes on:

2X6=12

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|------------------|-----------------------|
| (a) NPP | (b) Carrying capacity |
| (c) Soil profile | (d) Edge effect |
| (e) Food web | (f) Ecosystem |
