



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

Semester End Examination, April - 2023

Environmental Science

M.Sc. – III Semester

Paper Name- Biodiversity and Conservation

Paper Code- EST-302

Max Time: 3 Hrs.

Max Marks: 60

Note: Attempt any five questions. Each question carries 12 marks. (5x12=60)

1. Explain the concept of Biodiversity. Why biodiversity is important for human being and ecosystem?
(12x1=12)
2. Give a detail account on the three levels of biodiversity?
(12x1=12)
3. Describe the methods of measurement of species and genetic diversity.
(12x1=12)
4. Write short note on any three
(4x3=12)
 - a) Habitat destruction and fragmentation
 - b) Exotic species and its impact
 - c) Over exploitation
 - d) Ecosystem services

5. Write short note on **(4x3=12)**
- a) IUCN red list categories
 - b) Criteria of categorization of threatened species
 - c) Rare and endemic species
6. What are ex-situ conservation strategies? Describe in brief about different ex-situ conservation strategies? **(12x1=12)**
7. Define conservation of biodiversity. What are the methods of in-situ conservation? Describe in brief. **(12x1=12)**
8. Explain India is a mega-diversity nation? What are the characteristics of Biodiversity hotspots? Describe in brief about Biodiversity hotspots of India? **(12x1=12)**
9. Write short note any two **(6x2=12)**
- a) National Parks of India
 - b) Effect of biodiversity loss
 - c) Synthetic seed and its application
10. What is cryopreservation? Write the different steps of cryopreservation. **(12x1=12)**
