

MSc DEGREE END SEMESTER EXAMINATION - OCTOBER 2024
SEMESTER 3 : ENVIRONMENTAL SCIENCE
COURSE : 21P3EVST11: BIODIVERSITY, CONSERVATION AND SOCIAL ISSUES
(For Regular 2023 Admission and Supplementary 2022/2021 Admissions)

Duration : Three Hours

Max. Weights: 30

PART A**Answer any 8 questions****Weight: 1**

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| 1. Explain the human activities which accelerate global warming. | (R, CO 6) |
| 2. Define Heterozygosity. | (R, CO 1, CO 2) |
| 3. Differentiate between endangered and threatened species. | (R, CO 1) |
| 4. Indicate the necessity of rain water harvesting. | (U, CO 6) |
| 5. Write a note on the natural causes of habitat destruction. | (U, CO 1, CO 2) |
| 6. Write a note on IPR. | (U, CO 4) |
| 7. Mention the criteria for designating an area as biodiversity hotspot. | (R, CO 1, CO 2) |
| 8. Define National Parks. | (R, CO 4) |
| 9. Define Simpson's index. | (A, CO 4) |
| 10. Comment on nature reserves. | (U, CO 4) |
- (1 x 8 = 8)**

PART B**Answer any 6 questions****Weights: 2**

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| 11. How do pathogens affect the dynamics of a population? | (A, CO 4) |
| 12. Explain the key aspects of a restoration project. | (A, CO 1, CO 2) |
| 13. What role does public awareness play in the implementation of various proposals related to environment? | (An, CO 6) |
| 14. Write the causes and consequences of Chernobyl nuclear power plant disaster. | (An, CO 6) |
| 15. Briefly discuss the role of CITES in biodiversity conservation. | (An, CO 4) |
| 16. Why do you call India as a megadiversity nation? Explain. | (E, CO 1, CO 2) |
| 17. Explain different methods of ecosystem valuation. | (An, CO 3) |
| 18. Comment on People's Biodiversity Register? Discuss its function. | (U, CO 4) |
- (2 x 6 = 12)**

PART C**Answer any 2 questions****Weights: 5**

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| 19. Describe various ecosystem functions. | (E, CO 1) |
| 20. Discuss various <i>Ex-situ</i> conservation methods employed in biodiversity conservation. | (E, CO 4) |
| 21. Discuss in detail the impact of global warming on the climate of India. | (E, CO 6) |
| 22. Write a note on values of biodiversity. | (A, CO 1) |
- (5 x 2 = 10)**

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 1	Select plans for biodiversity conservation in various committees pertaining to the same	An	2, 3, 5, 7, 12, 16, 19, 22	18
CO 2	Explain factors detrimental to biodiversity	A	2, 5, 7, 12, 16	7
CO 3	Apply various methods of water conservation techniques around their locality	A	17	2
CO 4	Examine man-wildlife conflicts	E	6, 8, 9, 10, 11, 15, 18, 20	15
CO 6	Develop a sense of conservation attitude	U	1, 4, 13, 14, 21	11

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;