

Reg. No

Name

22P360

M.Sc. DEGREE END SEMESTER EXAMINATION : OCTOBER 2022
SEMESTER 3 : ENVIRONMENTAL SCIENCE
COURSE : 21P3EVST11 : BIODIVERSITY, CONSERVATION AND SOCIAL ISSUES
(For Regular -2021 Admission)

Duration : Three Hours

Max. Weights: 30

PART A

Answer any 8 questions

Weight: 1

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| 1. What is rain water harvesting? | (U, CO 6) |
| 2. Discuss various programmes and policies implemented for Wild life protection in India. | (An, CO 4) |
| 3. What are the responsibilities of BMCs? | (R, CO 4) |
| 4. Mention the criteria for designating an area as biodiversity hotspot. | (R, CO 1, CO 2) |
| 5. Explain Jaccard Index. | (U, CO 4) |
| 6. Mention any four methods for water conservation. | (R, CO 6) |
| 7. Mention the two mechanisms by which community structure affects the stability of a community. | (R, CO 1, CO 2) |
| 8. What is a biosphere reserve? | (U, CO 4) |
| 9. Comment on desert zone of India. | (R, CO 1) |
| 10. Explain 'edge effect'. | (U, CO 1, CO 2) |
| | (1 x 8 = 8) |

PART B

Answer any 6 questions

Weights: 2

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| 11. Explain the patterns of habitat fragmentation. | (An, CO 2) |
| 12. What are indirect values of biodiversity? Explain. | (A, CO 1) |
| 13. Why is biodiversity and ecosystem function important? | (U, CO 1) |
| 14. Comment on the activities and functions of Kerala State Biodiversity Board. | (U, CO 4) |
| 15. Discuss community dynamics and ecosystem stability. | (An, CO 1, CO 2) |
| 16. Briefly discuss World bank initiatives in biodiversity conservation. | (An, CO 4) |
| 17. Discuss the impacts of human activities on watershed. | (An, CO 6) |
| 18. What are wastelands. Explain the methods of wasteland reclamation. | (An, CO 6) |
| | (2 x 6 = 12) |

PART C

Answer any 2 questions

Weights: 5

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| 19. Discuss in detail various <i>in-situ</i> conservation strategies adopted for biodiversity conservation. | (E, CO 4) |
| 20. Describe various ecosystem functions. | (E, CO 1) |

21. Elaborate community process, community stability and structure. (E, CO 1, CO 2)
22. Describe the challenges posed by climate change to sustainable development in India. (Cr, CO 6)
- (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	4, 7, 9, 10, 12, 13, 15, 20, 21	20
CO 2	Explain factors detrimental to biodiversity	A	4, 7, 10, 11, 15, 21	12
CO 4	Examine man-wildlife conflicts	E	2, 3, 5, 8, 14, 16, 19	13
CO 6	Develop a sense of conservation attitude	U	1, 6, 17, 18, 22	11

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