

MSc DEGREE END SEMESTER EXAMINATION - OCTOBER 2024
SEMESTER 3 : ENVIRONMENTAL SCIENCE
COURSE : 21P3EVST10 ; ENVIRONMENTAL MONITORING AND MANAGEMENT
(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. | What are the advantages of Industrialization? | (An, CO 3) |
| 2. | What are the advantages of Eco-labelling? | (U, CO 2, CO 5) |
| 3. | Is sustainable development necessary? Give a short note. | (An, CO 3) |
| 4. | What are Ramsar sites? | (U, CO 3, CO 4) |
| 5. | What are the advantages of LCA? | (U, CO 2, CO 5) |
| 6. | Explain ISO 14000. | (E, CO 2, CO 5) |
| 7. | What is social sustainability? | (U, CO 2) |
| 8. | What is 'dry method' of land reclamation? | (U, CO 3, CO 4) |
| 9. | Write a note on Agenda 21. | (U, CO 2) |
| 10. | Enumerate the role of government in forest conservation. | (E, CO 3, CO 4) |
| | | (1 x 8 = 8) |

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

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| 11. | "Everything is Connected to Everything Else" Illustrate this ecology law, with the help of food chains and food webs. | (E, CO 3, CO 4) |
| 12. | Describe briefly the 'Industrial revolution in India'. | (U, CO 3) |
| 13. | Explain Community-Based Environmental Protection. | (U, CO 2) |
| 14. | What are the two general types of Environmental Auditing? | (E, CO 2, CO 5) |
| 15. | Explain Corporate Social Responsibility. | (U, CO 2, CO 5) |
| 16. | What is Corporate Environmental Responsibility | (E, CO 2, CO 5) |
| 17. | Write a note on "Gandhian conflict resolution and Environment". | (U, CO 2) |
| 18. | Comment on Input - Output Modeling | (R) |
| | | (2 x 6 = 12) |

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

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| 19. | How are waste materials managed at mine sites? | (An, CO 3, CO 4) |
| 20. | Explain the role of environmental movements/environmentalism for the Green revolution. | (U, CO 3) |
| 21. | Comment on Ecological footprint. What are the measures that can be adopted to reduce the Ecological Footprint? | (An, CO 2) |
| 22. | Explain the third law of Ecology based on Ecological succession. | (An, CO 3, CO 6) |
| | | (5 x 2 = 10) |

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 2	Explain the environmental, social and economic framework in which environmental management decisions are made.	U	2, 5, 6, 7, 9, 13, 14, 15, 16, 17, 21	20
CO 3	Develop environmental strategies, policies, programmes and systems that promote sustainable development.	Cr	1, 3, 4, 8, 10, 11, 12, 19, 20, 22	24
CO 4	Analyze environment management systems and formulate solutions that are technically sound, economically feasible, and socially acceptable.	A	4, 8, 10, 11, 19	10
CO 5	Decide measures for resource conservation.	E	2, 5, 6, 14, 15, 16	9
CO 6	Formulate environmental monitoring and assessment reports and monitor progress of environmental improvement programs.	Cr	22	5

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