

**MSc DEGREE END SEMESTER EXAMINATION- MARCH 2025****SEMESTER 4 : ZOOLOGY****COURSE : 21P4ZOOT15 : ENVIRONMENTAL MANAGEMENT AND DEVELOPMENT***(For Regular - 2023 Admission and Supplementary 2022/2021 Admissions)*

Duration : Three Hours

Max. Weights: 30

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

1. Describe Leopold Matrix and comment on its uses (U, CO 3)
  2. What is meant by SDGs? Enlist any four of them (U)
  3. What is input – output Environmental modeling; ? (An, CO 1)
  4. What is the significance of environmental planning? (U, CO 1)
  5. What do you mean by radiometry? (U, CO 6)
  6. What do you mean by exponential growth in humans? (U, CO 2, CO 4)
  7. Enlist various steps in EIA process (R, CO 3)
  8. What is green revolution? Who is its proponent? (U)
  9. Brief on the management practices for reclaimed land. (U, CO 2, CO 4)
  10. What are the principles of a sustainable society? (U)
- (1 x 8 = 8)**

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

11. Define EIA. Explain any one method of EIA process (U, CO 3)
  12. A 'Cradle to Grave analysis' is important in reducing environmental impact of an industrial product'. Justify this statement (An, CO 3)
  13. Elaborate on the changes of land use pattern and its environmental impacts (A)
  14. What is map projection? Explain raster and vector data. (U, CO 6)
  15. Explain the environmental consequences of industrial revolution (E)
  16. Explain the management practises for wetlands. (U, CO 2, CO 4)
  17. "Our Common Future was decisive in making the modern world". Discuss the statement (A)
  18. Explain the significance of ecological footprint. (U, CO 1)
- (2 x 6 = 12)**

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

19. Prepare an essay on various UN conferences on sustainable development (An)
  20. Describe your understanding on the five basic laws of ecology. (A, CO 2, CO 4)
  21. Environment & development are the two sides of the same coin, but a conflict of interest. Verify the statement (A)
  22. Briefly explain various types of impact assessment. Comment on the significance of each (R, CO 3)
- (5 x 2 = 10)**

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 1	Discuss the principles of environmental management, modelling and auditing	U	3, 4, 18	4
CO 2	Discuss the fundamental and advanced concepts of environmental management concepts	U	6, 9, 16, 20	9
CO 3	Describe environmental planning, eco remediation and restoration	U	1, 7, 11, 12, 22	11
CO 4	Examine the concepts and objectives of EIA and its processes like Baseline data collection, Impact assessment, Impact prediction, EMP	U	6, 9, 16, 20	9
CO 6	Evaluate the concepts and principles of remote sensing and GIS and their applications to environmental studies	U	5, 14	3

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