

M.Sc. DEGREE END SEMESTER EXAMINATION- MARCH 2026**SEMESTER 4 : ZOOLOGY****COURSE : 21P4ZOOT15 : ENVIRONMENTAL MANAGEMENT AND DEVELOPMENT***(For Supplementary 2023/ 2022/2021 Admissions)*

Time : Three Hours

Max. Weights: 30

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

1. Briefly describe the Legal requirements in India regarding EIA. (R, CO 3)
2. Brief on how to manage ecosystems with local knowledge? (U, CO 2, CO 4)
3. Brief on the management practices for forests. (U, CO 2, CO 4)
4. What is image rectification? (U, CO 6)
5. Comment briefly on modern agriculture (E)
6. Describe Stockholm conference (E)
7. Comment on corporate social responsibility. (U, CO 1)
8. List out the aims of ISO 14000 (R, CO 1)
9. What is 'Rio+20'? (U)
10. Comment on various Quantifiable and non-quantifiable ecological impacts (R, CO 3)
(1 x 8 = 8)

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

11. Brief on cost benefit analysis. Add on its advantages and limitations. (U, CO 1)
12. Compare the checklist and Matrix methods of EIA process (R, CO 3)
13. Specify the significance of the participatory mode of environmental management (An)
14. Define Sustainable Development. Briefly describe the historical emergence of this concept. ()
15. Explain the management practises for agricultural lands. (U, CO 2, CO 4)
16. Analyse any two environmental issues in the light of 'Tragedy of the commons' (An)
17. 'EIA is cumbersome and expensive exercise'. Justify this statement (E, CO 3)
18. Which are the major satellite series launched by India? (R, CO 6)
(2 x 6 = 12)

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

19. Prepare an essay on Green revolution and comment on its environmental impacts (An)
20. Describe any three methodologies of EIA process. Compare and comment on their merits and demerits (R, CO 3)
21. What can I do, as a citizen, for development to be more sustainable in my country? (A, CO 5, CO 6)

22. Describe your understanding on the five basic laws of ecology.

(A, CO 2, CO
4)
(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	7, 8, 11	4
CO 2	Discuss the fundamental and advanced concepts of environmental management concepts	U	2, 3, 15, 22	9
CO 3	Describe environmental planning, eco remediation and restoration	U	1, 10, 12, 17, 20	11
CO 4	Examine the concepts and objectives of EIA and its processes like Baseline data collection, Impact assessment, Impact prediction, EMP	U	2, 3, 15, 22	9
CO 5	Examine the concepts EIA documentation, types of impact assessment, SEA, CIA, SIA	U	21	5
CO 6	Evaluate the concepts and principles of remote sensing and GIS and their applications to environmental studies	U	4, 18, 21	8

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