Reg. No ..... Name **23P4032**

M. Sc. DEGREE END SEMESTER EXAMINATION : MARCH 2023

SEMESTER 4 : ZOOLOGY

COURSE : **21P4ZOOT15 : ENVIRONMENTAL MANAGEMENT AND DEVELOPMENT**

(For Regular - 2021 Admission)

Duration : Three Hours Max. Weights: 30

PART A

Answer any 8 questions **Weight: 1**

1.	What is ecoremediation?	(An, CO 2, CO 4)
2.	What is RADARSAT?	(R, CO 6)
3.	What is TOR in EIA process? Mention its importance	(U, CO 3)
4.	What is input – output Environmental modeling; ?	(An, CO 1)
5.	Comment on corporate social responsibility.	(U, CO 1)
6.	Brief on how to manage ecosystems with local knowledge?	(U, CO 2, CO 4)
7.	What is 'Rio+20'?	(U)
8.	Explain 'Rio+10'	(An)
9.	Narrate the history of green revolution in India	(E)
10.	Describe matrix method in EIA study. Mention its merits	(R, CO 3)

(1 x 8 = 8)

PART B

Answer any 6 questions **Weights: 2**

11.	Discuss the constraints and barriers for attaining sustainability	(E)
12.	Discuss the problems and challenges that are associated with EIA in developing countries	(U, CO 3)
13.	Explain the management practises for forests.	(U, CO 2, CO 4)
14.	Briefly explain community based and regional based planning.	(U, CO 1)
15.	Which are the major satelite series launched by India?	(R, CO 6)
16.	What is green revolution? Enumerates its merits and demerits	(A)
17.	Give an account on disaster management programme	(U, CO 3)
18.	Prepare note on the 'Tragedy of the commons'	(An)

(2 x 6 = 12)

PART C

Answer any 2 questions **Weights: 5**

19.	Define sustainable development. Describe the major imperatives relating sustainable development.	(E)
20.	Briefly explain various types of impact assessment. Comment on the significance of each	(R, CO 3)

21. Development should bring a positive change in the environment. Validate the statement in your point of view (E)

22. Describe on how to manage waste land, reclaimed land and an industrial land. (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	4, 5, 14	4
CO 2	Discuss the fundamental and advanced concepts of environmental management concepts	U	1, 6, 13, 22	9
CO 3	Describe environmental planning, eco remediation and restoration	U	3, 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	1, 6, 13, 22	9
CO 6	Evaluate the concepts and principles of remote sensing and GIS and their applications to environmental studies	U	2, 15	3

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