Reg. No

Duration : Three Hours

M.Sc. DEGREE END SEMESTER EXAMINATION - NOVEMBER 2024

SEMESTER 1 : ENVIRONMENTAL SCIENCE

COURSE : 24P1EVST01 : FUNDAMENTALS OF ENVIRONMENTAL SCIENCE

(For Regular - 2024 Admission)

Max. Weights: 30

	PART A	
	Answer any 8 questions	Weight: 1
1.	Explain the term carbon footprint	(R, CO 2, CO
2		3)
2.	What is 'Ecological guild'?	(U)
3.	Write a note on WCMC.	(R)
4.	List out the major effects of radioactive pollution	(An)
5.	What is GIS?	(U)
6.	What do you mean by disaster management?	(U)
7.	What is meant by character displacement?	(E)
8.	Explain positive and negative interactions in the ecosystem.	(A)
9.	State Liebig's Law of minimum.	(U)
10.	Differentiate between pyramid of energy and pyramid of biomass.	(An) (1 x 8 = 8)
	PART B	(
	Answer any 6 questions	Weights: 2
11.	Describe trophic levels.	(R)
12.	Explain the different phases of disaster.	(U)
13.	Differentiate between Photochemical smog and Sulphurous smog?	(An <i>,</i> CO 5)
14.	'Phosphorus cycle' is an imperfect cycle. Why it is called so?	(An)
15.	Explain e-waste.	(E)
16.	How does the ecosystem attain stability through redundancy of components?	(E)
17.	What are the primary and secondary parameters that affect air pollution dispersion?	(U)
18.	Which are the major two types of species diversity conservation methods?	(∪) (2 x 6 = 12)
	PART C	
	Answer any 2 questions	Weights: 5
19.	What is the concept of homeostasis in ecology, and how does it contribute to ecosystem stability?	(A, CO 3)
20.	Explain in detail species diversity indices and its measurement.	()
21.	Explain the importance of wetlands and add a note on the international initiatives for wetland conservation.	()
22.	Describe the whole processes involved in the formation of soil.	(U)
		$(5 \times 2 = 10)$

(5 x 2 = 10)

OBE: Questions to Course Outcome Mapping

СО	Course Outcome Description	CL	Questions	Total Wt.
CO 2	Explain the transnational character of environmental problems and ways of addressing them.	U	1	1
CO 3	Identify the primary environmental problems (e.g., invasive species, climate change, small populations, and pollution) and the science behind those problems.	An	1, 19	6
CO 5	Assess the biological productivity of nature and its relations with mankind.	U	13	2

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