No. of Printed Pages: 3

M. SC. (ENVIRONMENTAL SCIENCE) (MSCENV)

Term-End Examination June, 2025

MEV-013: ENVIRONMENTAL CHEMISTRY

Time: 3 Hours Maximum Marks: 100

Note: (i) Answer any **ten** questions.

- (ii) Each question carries 10 marks.
- Define Environmental Chemistry. Discuss
 the scope and concepts of Environmental
 Chemistry. 2+8
- Differentiate adsorption and absorption with suitable examples.

3.	Explain the catalytic cycle with a neatly								
	labelled diagram. 10								
4.	What are oxidising and reducing								
	agents? Explain with suitable examples. 10								
5.	Why are radionuclides hazardous ?								
	Explain. 10								
6.	Discuss the advantages and disadvantages								
	of biogas. 10								
7.	What is the hydrological cycle? Explain it								
	importance with a diagram. 10								
8.	Write a brief note on PCBs and								
	polychlorinated biphenyls with an emphasis								
	of their role in the environment.								
9.	Describe a soil profile with a neat diagram.								
	10								
10.	Explain the importance of micro- and macro-								
	nutrients in soil. 10								

10

11. Describe the effects of global warming.

12.	Why	do	we	add	alum	to	purify	water	?
	Expla	ain.						-	10

13. Differentiate IR spectroscopy and UV-Vis spectrometry.

14. Discuss the applications of a mass spectrometer.

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