

**PH. D. IN ENVIRONMENTAL
SCIENCE (PHDEV)**

Term-End Examination

June, 2025

REVE-001 : ENVIRONMENTAL CHEMISTRY

Time : 3 Hours

Maximum Marks : 100

Note : Answer any *five* questions. All questions carry equal marks.

1. Discuss various environmental sampling methods. What are their suitability in environmental research ? Explain.
2. What is Green Chemistry ? Explain its principles with suitable examples.
3. Describe the process of Nephelometry. Explain its applications in the environmental research.

4. What are environmentally benign solvents ?
Describe the role of supercritical carbon dioxide as a solvent.
5. Explain the role of Green Chemistry principles on the reduction of environmental pollution.
6. What is the principle of AAS ? What are the advantages of AAS over FES ? Justify.
7. Describe various analytical technologies used in the environmental research.
8. Write short notes on the following :
 - (i) El nino
 - (ii) Climate change
 - (iii) Supercritical fluids
 - (iv) Cyclonic separator

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