

Reg. No.:



Name:

W8090

University of Kerala

First Semester FYUGP Degree Examination, December 2025

Multi Disciplinary Course

CHEMISTRY

UK1MDCCHE100 FUNDAMENTAL ASPECTS OF ENVIRONMENTAL CHEMISTRY

Academic Level: 100-199

2024 Admission

Time: 1 Hour 30 Minutes

Max. Marks: 42

Part A.

6 Marks. Time: 6 Minutes Objective Type. 1 Mark Each.

Answer All Questions (Cognitive Level: Remember/Understand)

Qn No.	Question	Cognitive Level	Course Outcome (CO)
1.	What are the layers of lithosphere?	Remember	CO-1
2.	Write two gases cause green house effect.	Remember	CO-2,6
3.	How is water purified for drinking purpose?	Understand	CO-3,4
4.	Write two examples of natural disasters.	Understand	CO-5
5.	Which is the living component of the environmental segment?	Understand	CO-1
6.	Write any two soil pollutants.	Understand	CO-3, 4

Part B.

8 Marks. Time: 24 Minutes Short Answer. 2 Marks Each.

Answer All Questions (Cognitive Level: Understand/Apply)

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
7.	What are the structure and functions of ecosystem?	Understand	CO-1
8.	What is acid rain?	Understand	CO-2,6
9.	Explain the differences between BOD and COD.	Apply	CO-3,4
10.	Explain how mercury entered into human being in Minamata disease.	Apply	CO-5

Part C.
28 Marks. Time: 60 Minutes Long Answer. 7 marks each.
Answer all 4 Questions, choosing among options within each question.
(Cognitive Level: Understand/Apply)

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
11.	a) Explain ecological succession and its significance. OR b) Explain the different layers of lithosphere.	Understand	CO-1
12.	a) Describe the interconnection between air pollutant and ozone depletion. OR b) Discuss the effect of air pollutants in global warming. Also suggest remedial measures.	Understand	CO-2,6
13.	a) Explain any three methods to prepare pure water from waste water. OR b) Explain both the chemical and physical impacts of soil pollutants on plant growth, and wildlife. Propose strategies for remediation and sustainable land.	Apply	CO-3,4
14	a) Design a disaster management for flood in your region. OR b) Write a comparative study on the causes, impacts and long-term consequences of Chernobyl incident and Endosulphan tragedy in Kerala. Design a set of recommendation for preventing future disasters.	Apply	CO-5