

14	a) Apply your knowledge of nuclear safety and disaster management to analyze and compare two major nuclear disasters. OR b) Define natural and man made disasters and analyze the key differences between the two. Provide examples of each type.	Apply	CO-5
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7.	What is the role of atmosphere in maintaining heat balance of earth?	Understand	CO-1
8.	What is acid rain?	Understand	CO-2,6
9.	What is operation blossom spring?	Apply	CO-5
10.	What is dissolved oxygen (DO)? Describe its significance in water pollution.	Apply	CO-3

Part C.

Answer all 4 Questions, choosing among options within each question.

Long Answer. 7 marks each.

(Cognitive Level: Understand/Apply)

28 Marks. Time: 60 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
11.	a) Describe the concept of ecological succession and explain how it impacts the formation and development of food chains within an ecosystem. OR b) Explain how temperature and atmospheric composition vary across different layers of atmosphere.	Understand	CO-1
12.	a) Discuss the role of carbon dioxide (CO₂) as a greenhouse gas in the context of global warming and climate change. Explain the relationship between CO₂ emissions from human activities and their impacts on air quality and ecosystem health OR b) Discuss the importance of the ozone layer. Explain the causes and consequences of ozone depletion. Mention two substances responsible for ozone depletion.	Understand	CO-2,6
13.	a) Investigate the impact of plastics as a non-biodegradable pollutant in marine environments. Suggest remedial measures. OR b) Apply your knowledge of agricultural practices to explain how the uncontrolled use of fertilizers affects soil fertility.	Apply	CO-3,4



U7467



Reg. No.:

Name:.....

University of Kerala

First Semester Degree Examination, November 2024

Four Year Under Graduate Programme

Multi Disciplinary Course

CHEMISTRY**UK1MDCCHE100- FUNDAMENTAL ASPECTS OF ENVIRONMENTAL CHEMISTRY**

Academic Level: 100-199

Time: 1½ Hours**Max. Marks: 42****Part A.**

Answer All Questions, Objective Type. 1 Mark Each.
(Cognitive Level: Remember/Understand)
6 Marks. Time: 6 Minutes

Qn No.	Question	Cognitive Level	Course Outcome (CO)
1.	Give the percentage of the major components in the atmosphere.	Remember	CO-1
2.	What is the term used to describe harmful substances introduced into the environment?	Remember	CO-2
3.	What is electrodialysis?	Understand	CO-3,4
4.	What is the meaning of disaster?	Understand	CO-5,6
5.	Give example for quaternary consumers.	Understand	CO-1
6.	What is smog?	Understand	CO-2

Part B.

Answer All Questions, Short Answer. 2 Marks Each.
(Cognitive Level: Understand/Apply)
8 Marks. Time: 24 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
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