

25U124

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Name :

Reg. No :

FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(FYUGP)

(Regular/Supplementary/Improvement)

CC24UCHE1FM105 - ENVIRONMENTAL CHEMISTRY

(Chemistry - MDC)

(2024 Admission onwards)

Time: 1.5 Hours

Maximum : 50 Marks

Credit: 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Categorize macro cations and micro cations present in water. [Level:2] [CO1]
2. Discuss the four functions of atmosphere. [Level:2] [CO1]
3. Explain how ozone layer depletion occurs due to chlorofluorocarbons (CFCs). [Level:2] [CO4]
4. Describe the role of sulphur dioxide (SO₂) in causing acid rain. [Level:2] [CO4]
5. Describe how using public transportation instead of private cars can help reduce urban air pollution. [Level:2] [CO5]
6. Discuss underground water pollution. Identify a common cause of underground water pollution. [Level:2] [CO3]
7. Discuss the source of petroleum pollution in water bodies. [Level:2] [CO3]
8. Explain the importance of DO in water bodies. [Level:2] [CO2]
9. Discuss briefly about Hiroshima incident [Level:2] [CO4]
10. Discuss the definition of thermal pollution. [Level:2] [CO2]

(Ceiling: 16 Marks)

Part B (Paragraph questions/Problem)

Answer *all* questions. Each question carries 6 marks.

11. Explain the terms pollutant and contaminant. Give examples. [Level:2] [CO2]
12. Describe how hydrocarbons in the atmosphere lead to photochemical smog. What are the health hazards associated with it? [Level:2] [CO3, CO4]

13. Explain the the difference between physical agents and chemical agents [Level:2] [CO3]
14. Explain soil pollution due to plastics and pesticides. [Level:2] [CO3, CO4, CO5]
15. Classify the solid waste in to hazardous waste and non-hazardous waste. [Level:2] [CO3]

(Ceiling: 24 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

16. Discuss about different types of pollution and corresponding pollutants. [Level:2] [CO2]
17. Discuss the importance of wastewater treatment in controlling water pollution. [Level:2] [CO5]
Describe the various stages of treatment processes, including primary, secondary, and tertiary treatments, and their effectiveness in removing pollutants.

(1 × 10 = 10 Marks)
