

24U123

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Name :

Reg. No :

FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2024

(FYUGP)

CC24U CHE1 FM105 - ENVIRONMENTAL CHEMISTRY

(B.Sc. Chemistry - MDC)

(2024 Admission - Regular)

Time: 1.5 Hours

Maximum : 50 Marks

Credit: 3

Part A (Short answer questions)

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

1. Discuss the composition of water. [Level:2] [CO1]
2. Classify the components of environment. [Level:2] [CO1]
3. Explain greenhouse effect? [Level:2] [CO4]
4. Explain the term ozone holes. [Level:2] [CO4]
5. Explain the purpose of a scrubber in controlling air pollution from industrial emissions. [Level:2] [CO5]
6. Explain the impact of pharmaceutical pollution on aquatic ecosystems. [Level:2] [CO4]
7. Describe the effect of physical agents on aquatic ecosystems. [Level:2] [CO3]
8. Explain the use of chemical methods in removing pollutants. [Level:2] [CO5]
9. Predict the difference between biodegradable and non-biodegradable wastes. [Level:2] [CO4]
10. Discuss about vermicomposting [Level:2] [CO5]

(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 impact of anthropogenic causes on water quality. [Level:2] [CO4]
14. Explain the adverse effects and control methods of radioactive pollution. [Level:2] [CO4, CO5]

15. Discuss briefly about thermal pollution.

[Level:2] [CO3, CO4,
CO5]

(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 alkalinity and hardness in water quality assessment.
Explain how these parameters affect aquatic life and the suitability of water for human consumption and agricultural use.

[Level:2] [CO4]

(1 × 10 = 10 Marks)
