

2025

M.Sc. 1st Semester Examination
ENVIRONMENTAL SCIENCE

Paper : EVSC401X0

(Environmental Chemistry)

Full Marks : 50

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *four* questions : 2×4=8

1. Write down the role of micronutrients on plant's growth and development.
2. What is process of Incineration?
3. Comment on the different types of pollutants.
4. Comment on the process of nitrification and nitrogen assimilation during the nitrogen cycle.
5. What are the major greenhouse gases?
6. What is Eutrophication?

P.T.O.

(2)

Group - B

Answer any *four* questions : $4 \times 4 = 16$

7. Discuss on the environmental effects of acid rain.
8. What are the anthropogenic factors that contributing to climate change? .
9. What are the natural and anthropogenic sources of carbon?
10. Write a short note on source and sink of GHGs.
11. Draw the S-cycle and briefly discuss on the steps of the cycle.
12. How does photochemical smog affect human health?

Group - C

Answer any *two* questions : $8 \times 2 = 16$

13. How many classes of hazardous substances are there according to the UN system? Explain the nature of each class.
14. Discuss on the different sources of hazardous substances.
15. Discuss the different treatment strategies/methods for hazardous waste.
16. What is lapse rate? Explain the significance of lapse rate in atmospheric stability and weather formation.

Internal Assessment : 10 marks
