

**D 130136**

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Name.....

Reg. No.....

**FIFTH SEMESTER CBCSS-UG DEGREE EXAMINATION  
NOVEMBER 2025**

(2019 Syllabus)

Chemistry

CHE 5D 01—ENVIRONMENTAL CHEMISTRY

Time : Two Hours

Maximum : 60 Marks

**Section A**

*All Questions can be answered.  
Each Question carries 2 marks.  
(Ceiling 20 Marks)*

1. What are the main components of soil in the lithosphere ?
2. Name the different regions of the atmosphere.
3. What are greenhouse gases and how do they impact the earth's temperature ?
4. What are the major pollutants emitted by automobiles ?
5. Explain two major environmental consequences of marine oil pollution.
6. What is biomagnification ?
7. Write two harmful effects of thermal pollution.
8. What were the causes and consequences of the endosulfan disaster in Kerala ?
9. What is the purpose of a gravitational settling chamber in air pollution control ?
10. How does a fabric filter help in reducing air pollution ?
11. Write any one reaction and calculate atom economy of it.
12. Evaluate water as a green solvent for conducting reactions.

(Ceiling 20 Marks)

**Section B**

*All Questions can be answered.  
Each Question carries 5 marks.  
(Ceiling 30 Marks)*

13. What are global pollutants ? Provide examples.
14. What is Itai-Itai disease ?

**Turn over**

15. Explain the sources and control measures of radioactive pollution.
16. Evaluate the long-term consequences of nuclear disasters.
17. Why are stacks and chimneys used in industries to control air pollution ?
18. How does zoning help in controlling air pollution in urban areas ?
19. What are the aims of green chemistry ?

(Ceiling 30 marks)

### Section C

*Answer any one.*

*The question carries 10 marks.*

20. Discuss the causes and effects of air pollution, highlighting its impact on human health, the environment, and climate change.
21. Discuss the significance of various water quality parameters and international standards of drinking water.

(1 × 10 = 10 marks)