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Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2024**

Chemistry

CHE 5D 01—ENVIRONMENTAL CHEMISTRY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answers)*Answer questions up to 20 marks.**Each question carries 2 marks.*

1. Define the terms receptor and sink.
2. Write a note on lithosphere.
3. What is acid rain ?
4. Mention some ways to reduce air pollution caused by automobiles.
5. Why is the excessive use of fertilizers discouraged ?
6. What was the reason for the Minamata disaster ?
7. What is meant by water pollution ?
8. How oil lead to water pollution ?
9. What is e-waste ?
10. Discuss about light pollution.
11. Define green chemistry.
12. Write any *four* principles of green chemistry.

(Ceiling of marks : 20)

Turn over

Section B (Paragraph)

Answer questions up to 30 marks.

Each question carries 5 marks.

13. Discuss about persistent and non-persistent pollutants with examples.
14. How depletion of ozone layer occurs ?
15. How is photochemical smog formed ? How does it adversely affect human beings ?
16. Write a note on the sources and harmful effects of thermal pollution.
17. Discuss about solid waste management.
18. Write a note on Cottrell electrostatic precipitator.
19. What are the applications of green chemistry in daily life ?

(Ceiling of marks : 30)

Section C (Essay)

*Answer any **one** question.*

Each question carries 10 marks.

20. Discuss about the important water quality parameters.
21. Describe the following pollution control measures :
 - (a) Gravitational settling chamber ;
 - (b) Wet scrubber ;
 - (c) Catalytic convertors ; and
 - (d) Cyclone collectors.

(1 × 10 = 10 marks)