

D 10586

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Name.....

Reg. No.....

FIFTH SEMESTER U.G. DEGREE EXAMINATION, NOVEMBER 2021

(CBCSS—UG)

Chemistry

CHE 5D 01—ENVIRONMENTAL CHEMISTRY

(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answers)*Answer at least **eight** questions.**Each question carries 3 marks.**All questions can be attended.**Overall Ceiling 24.*

1. What is non persistent pollutant ?
2. What is the role of atmosphere in photosynthesis ?
3. Name some gaseous air pollutants.
4. What are the sources of oxides of nitrogen in the atmosphere ?
5. Write a short note on the contamination of ground water by agricultural activities.
6. What is itai - itai disease ?
7. Mention two methods for reducing the contamination of water with lead.
8. What is Eutrophication ?
9. The dangers posed by soil pollution are due to increase in population. Comment.
10. List the harmful effects of soil pollution.
11. Give two examples of green solvents.
12. What is atom economy ?

(8 × 3 = 24 marks)

Turn over

Section B (Paragraph)

*Answer at least **five** questions.*

Each question carries 5 marks.

All questions can be attended.

Overall Ceiling 25.

13. Write a note on the air pollution in Delhi.
14. Explain the effects of acid rain.
15. Briefly describe the pollution due to plastics.
16. Endosulphan destroyed the biodiversity of certain villages in Kerala. Justify.
17. Explain the important segments of environment.
18. Discuss the role of zoning and green belt in controlling air pollution.
19. Explain the applications of green chemistry.

(5 × 5 = 25 marks)

Section C (Essays)

*Answer any **one** question.*

The question carries 11 marks.

20. Discuss the different water quality parameters.
21. Briefly explain the use of a) Gravitational settling chamber ; b) Catalytic converters ; and c) Cottrell's precipitator in controlling pollution.

(1 × 11 = 11 marks)