D 10586 (Pages : 2) 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)

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D 30496 **(Pages : 2)** **Name.....**

Reg. No.....

FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2022

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. What are the different segments of environment ?
2. How are pollutants classified ?
3. What is zoning ?
4. Explain the role of green belt in controlling air pollution.
5. What is the role of catalytic converters in automobiles ?
6. List the sources of sulphur dioxide in the atmosphere.
7. Name any *two* polluted Indian rivers and the industries that cause their pollution.
8. What are biofertilizers ? Give an example.
9. Write a note on soil pollution by *e*-waste.
10. What is smog ?
11. What is green chemistry ?
12. List any four principles of green chemistry.

(Ceiling of marks : 20)

Section B (Paragraph)

Answer questions up to 30 *marks.*
Each question carries 5 *marks.*

13. Illustrate the importance of hydrosphere.
14. Explain global warming.

Turn over

15. Write a note on Bhopal tragedy.

16. Explain the different types of hardness of water.

17. Discuss some methods for the disposal of radioactive waste.

18. Briefly describe the soil pollution by industrial wastes.

19. What is the role of green chemistry in controlling pollution ? Explain any *two* applications of green chemistry in daily life.

(Ceiling of marks : 30)

Section C (Essay)

Answer any **one** *questions.*

Each question carries 10 *marks.*

20. Discuss the various sources of water pollution.

21. Briefly explain any four measures that can be adopted to control air pollution.

(1 × 10 = 10 marks)

D 50574 (Pages : 2) Name.....

Reg. No.....

FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION NOVEMBER 2023

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. Name the different regions of atmosphere.
2. What is meant by contaminant ? How is it differ from a pollutant ?
3. Define global warming. Name any two gaseous pollutants causing global warming.
4. How can we control photochemical smog ?
5. What is underground water pollution ?
6. Differentiate between BOD and COD.
7. What are the sources of *e*-waste ?
8. Define thermal pollution. Write any *two* sources of thermal pollution.
9. Name any *four* methods used to control air pollution.
10. How catalytic converters are used for controlling air pollution ?
11. Define green chemistry. Comment on its need ?
12. Write any two applications of green chemistry in daily life.

(Ceiling of marks : 20)

Turn over

Section B (Paragraph)

Answer questions up to 30 *marks.*

Each question carries 5 *marks.*

13. Discuss the classification of Pollutants.

14. Briefly discuss the causes of water pollution.

15. Write and explain any two methods used for solid waste management.

16. Give an account on radioactive pollution.

17. Write a short note on Gravitational settling chamber.

18. Discuss briefly the air pollution control by Cottrell electrostatic precipitator.

19. List out the basic principles of green chemistry.

(Ceiling of marks : 30)

Section C (Essay)

Answer any **one** *question.*

The question carries 10 *marks.*

20. Explain the different gaseous air pollutants causing tropospheric pollution.

21. Write a note on the different sources of water pollution.

(1 × 10 = 10 marks)