

(Pages : 4)

S – 7416

Reg. No. :

Name :

Fifth Semester B.A./B.Sc./B.Com. Degree Examination, February 2024

First Degree Programme Under CBCSS

Double Main Programme

Chemistry

Open Course

CH 1551.3 : ENVIRONMENTAL CHEMISTRY

(2020 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** question in a word or one or two sentences. Each question carries **1** marks.

1. Give the name of the outer mantle of earth.
2. What is the cause for minamata disease?
3. Name any two heavy metal ions causing water pollution.
4. What is acid rain?
5. Which protects the earth from UV radiations?
6. What is smog?
7. Name any two greenhouse gases.

P.T.O.



8. What is e-waste?
9. What is meant by tripple R in waste management?
10. What are freons?

(10 × 1 = 10 Marks)

SECTION – B

Answer **any eight** question. Each questions carries **2** marks.

11. Explain the major compositions of earth's atmospheres.
12. What is greenhouse effect?
13. Explain BOD and COD.
14. What is radioactive pollution?
15. Distinguish between soft and hard water.
16. Explain the toxic effect of CO.
17. What are the common air pollutants?
18. What increases the amount of CO_2 in the atmosphere?
19. Write a short note on itai-itai disease.
20. What is the goal of Forest Conservation Act?
21. How does ocean pollution affect sea animals?
22. What are the main concepts of green chemistrt?

(8 × 2 = 16 Marks)



SECTION – C

Answer **any six** questions. Each question carries **4** marks.

23. Explain ozone layer depletion.
24. What are the consequences of global warming?
25. Discuss how sewage and industrial effluents pollute water.
26. Write a note on thermal pollution.
27. Discuss the adverse effect of plastic pollution.
28. Write a note on Kyoto Protocol.
29. Explain briefly the toxic effect of mercury and cadmium in human.
30. How pesticides causes water pollution?
31. Explain eutrophication.

(6 × 4 = 24 Marks)

SECTION – D

Answer any **two** questions. Each question carries **15** marks.

32. Discuss the following:
 - (a) Rio – Declaration
 - (b) Ozone Depleting Substances Regulations and control Rules.
 - (c) Various types of smog.



33. Write a note on the following environmental disasters:

- (a) Bhopal disaster
- (b) Chernobyl incident
- (c) Seveso disaster

34. Discuss the nature, sources, effects and control measures of radioactive pollution.

35. Illustrate the following:

- (a) Wild life Protection Act.
- (b) The Plastic Waste Management and Handling Rules.
- (c) The Water (Prevention and Control of Pollution) Act.

(2 × 15 = 30 Marks)

