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**K – 3281**

Reg. No. : .....

Name : .....

**Fifth Semester B.Sc. Degree Examination, February 2021.**

**First Degree Programme under CBCSS**

**Chemistry**

**Open Course**

**CH 1551.3 – ENVIRONMENTAL CHEMISTRY**

**(2017 Admission)**

Time : 3 Hours

Max. Marks : 80

**SECTION – A**

Answer all questions (Each question carries 1 mark)

1. Define pollutant.
2. What is flyash?
3. Name two green house gases.
4. What are particulates?
5. What are the main sources of surface water pollution?
6. What are freons?
7. Name a major pollutant in automobile exhaust.
8. What is the adverse effect of acid rain on buildings?

P.T.O.

9. Name any two major environmental disasters.
10. Name an environmental movement.

**(10 × 1 = 10 Marks)**

### SECTION – B

Short answer type (Answer **any eight** questions, Each question carries **2** marks)

11. Mention the major regions of atmosphere.
12. Distinguish between hard water and soft water.
13. What is green house effect?
14. What is meant by Eutrophication?
15. Explain thermal pollution.
16. What is smog'?
17. How are pollutants classified?
18. How plants, trees and forests control pollution?
19. Write two advantages of recycling of waste.
20. Name any two major environmental laws.
21. What are the types of water pollutants?
22. Write briefly about the cause and consequence of Bhopal disaster.

**(8 × 2 = 16 Marks)**

## SECTION – C

Short essay type (Answer **any six** questions, Each question carries 4 marks)

23. Write a note on ozone layer depletion.
24. Describe briefly the composition of atmosphere.
25. Explain the methods to control water pollution
26. Explain radioactive pollution.
27. Explain the terms BOD and COD.
28. Write a note on Chernobyl incident.
29. Write a note on Montreal protocol.
30. What are the main sources of marine pollution?
31. What procedures are adopted to control radioactive pollution?

**(6 × 4 = 24 Mark)**

## SECTION – D

Essay type (Answer **any two** questions, Each Question carries **15** marks)

32. Write note on
  - (a) acid rain
  - (b) Hardness of water and
  - (c) Plastics and their misuses.
33.
  - (a) Explain briefly the sources and effects of water pollution.
  - (b) Discuss briefly the various factors causes soil pollution.
  - (c) Write a note on various types of smog.

34. Explain

(a) Forest conservation Act

(b) The wild life protection Act and

(c) green chemistry.

35. Explain the sources, types and effects of air pollution.

**(2 × 15 = 30 Marks)**

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