



Reg. No. :

Name :

VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.)

Examination, April 2021

(2014 – 2018 Admissions)

CORE COURSE IN CHEMISTRY

6B17 CHE-A : Environmental Chemistry

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer **all** questions. **Each** question carries **one** mark.

1. What are primary air pollutants ?
2. What are the environmental segments ?
3. What is the cause of itai-itai disease ?
4. List any two greenhouse gases. (1×4=4)

SECTION – B

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

5. What are the adverse effects of acid rain ?
6. Give the temperature and composition of the atmospheric segments.
7. What is COD ? What is its significance ?
8. What are the biological effects of radiation ?



9. What is e-waste ?
10. What are the benefits of liming the soil ?
11. What is meant by El-nino phenomenon ?
12. List the toxic effects of any two heavy metals.
13. How is temporary hardness of water removed ?
14. What is meant by noise pollution ?
15. What is meant by eutrophication ?
16. Give two methods for solid waste management.
17. What is hydrological cycle ?
18. How is SO_2 and H_2S measured in air sample ? (2×7=14)

SECTION – C

Answer **any four** questions. **Each** question carries **3** marks.

19. Explain the formation of photochemical smog.
20. What is meant by soil formation ? What are the factors influencing it ?
21. Write a note on biomagnifications and bioaccumulation.
22. Give the control measures of noise pollution.
23. What are the advantages and disadvantages of bioremediation ?
24. Explain thermal pollution.
25. Explain the working of a wet scrubber.
26. Give an account of water pollution due to agricultural discharge. (3×4=12)



SECTION – D

Answer **any two** questions. **Each** question carries **5** marks.

27. Discuss the soil pollution due to pesticides and its impact on the environment.
28. Discuss the control measures of radioactive pollution.
29. a) Give the ISI standards of drinking water. **2**
b) Explain the domestic water treatment. **3**
30. Discuss the causes, consequences and control of greenhouse effect.
31. Explain the sources and consequences of heavy metal poisoning.
32. Give an account of municipal solid waste management. (5×2=10)