



K24U 0022

Reg. No. :

Name :

Sixth Semester B.Sc. Degree (C.B.C.S.S. – OBE – Regular/Supplementary/
Improvement) Examination, April 2024
(2019 to 2021 Admissions)

DISCIPLINE SPECIFIC ELECTIVE IN CHEMISTRY/POLYMER CHEMISTRY
6B17CHE/PCH-A : Environmental Chemistry

Time : 3 Hours

Max. Marks : 40

Instruction : Answer the questions in English only.

SECTION – A

Answer **all** questions. **Each** question carries 1 mark :

1. Give any two types of water resources on earth in the Hydrosphere.
2. Give two examples of greenhouse gases.
3. What is the expansion of COD ?
4. What is the acceptable limit of total hardness in drinking water as per BIS specification ? (4×1=4)

SECTION – B

Answer **seven** questions out of 10. **Each** carries 2 marks :

5. Write a note on segments of the environment.
6. How SO₂ formed in atmosphere ? Give two of its effects on human.
7. What is greenhouse effect ? Give one of its consequences.
8. What is thermal pollution ? Give one of its consequences.
9. What you mean by hardness of water ? How it is formed ?
10. What is the ion exchange process in soil ? Give one example.

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K24U 0022



11. Define municipal solid waste and give one example.
12. Define soil. How they formed ?
13. What is the hazard of a nuclear reactor ?
14. What are the biological effects of radiation ? (7×2=14)

SECTION – C

Answer **four** questions out of 6. **Each** carries 3 marks :

15. Write one source and adverse effect of Pb, Hg and Cd heavy metal poisoning.
16. Write a brief note on Bhopal gas tragedy.
17. What is acid rain, how it formed and write one adverse effect.
18. Briefly discuss BOD and its experimental determination.
19. Discuss about source, effect and control of E waste.
20. Write a brief note on Fukushima nuclear disaster. (4×3=12)

SECTION – D

Answer **two** questions out of 4. **Each** carries 5 marks :

21. Briefly discuss the following air pollution control devices with its principle- Cyclone separators, scrubbers and catalytic converters.
22. Discuss water pollution by pesticides, industrial effluents, agricultural discharge.
23. Write a note on solid waste management.
24. What is noise pollution ? Discuss about its source, effects and control. (2×5=10)