K23U 0477

Reg. No. : .....

Name : .....

VI Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/ Improvement) Examination, April 2023
(2019 and 2020 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 the full form of BIS.
2. What are the toxic effects of lead ?
3. Name the major segments of environment.
4. Mention the cause for Itai-Itai disease. **(4×1=4)**

SECTION – B

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

5. Explain the toxic effect of carbon monoxide.
6. How do fertilizers act as major water pollutant ?
7. Discuss the consequence of El Nino effect.
8. How can we control radiation pollution ?
9. Explain cyclone separators.
10. Mention the major sources of green house gases.
11. Discuss the cause for Bhopal tragedy.
12. Explain the biological effects of radiation.
13. Suggest any two methods for removal of hardness of water.
14. How does soil acidification affects plants ? **(7×2=14)**

P.T.O.

SECTION – C

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

15. Explain hydrological cycle.
16. Suggest control measures to check global warming.
17. Explain the sources and effects of noise pollution.
18. Mention the major issues caused by plastic pollution.
19. Soap and detergents causes water pollution. Justify the statement.
20. Write a note on Fukushima nuclear disaster. **(4×3=12)**

SECTION – D

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

21. Explain major sources of soil pollutant and discuss its adverse effects.
22. Discuss air pollution due to oxides of carbon, nitrogen and sulphur.
23. a) Explain the acid base and ion exchange reactions in soil.
    b) Suggest control measures for E waste pollution.
24. a) Write a short note on thermal pollution.
    b) Explain biomagnifications and bioaccumulation. **(2×5=10)**

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