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B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, APRIL 2013

Sixth Semester

Choice Based Core Course-ENVIRONMENTAL CHEMISTRY

(Common for B.Sc. Chemistry Model I, Model II B.Sc. Petrochemicals and B.Sc. Chemistry Environment and Water Management)

Time: Three Hours

Maximum Weight: 25

Section A

Answer all questions.

Each bunch of four questions carries a weight of 1.

- 1. 1. Mention one Non-conventional energy source.
 - 2. SPM is ----
 - 3. One carcinogenie-air pollutant is -----
 - 4. One persistent organo chlorine pesticide is -
- II. 5. Fluoride present in small quantities in water will give an orange red dye when treated with reagent.
 - 6. Minamata disease was first reported in ——— (name of country).
 - 7. Nuclear reactor produces pollution.
 - 8. Excessive algal growth in water is called -----
- III. 9. The optimum DO value for good water quality is -----
 - 10. Asbestos dust can cause -----
 - 11. One common method used for sterilizing water is ------
 - 12. One water-born disease is ----
- IV. 13. What is SAR?
 - Acidity and alkalinity of water is tested using —
 - 15. Formation of Brown ring in Brown ring test for nitrate is due to -----.
 - 1. COD value higher than ppm is regarded as Indicative of pollution.

 $(4 \times 1 = 4)$

Section B

Answer any five questions.

Each question carries a weight of 1.

- 17. What is photochemical smog?
- 18. What are the adverse effect of pesticides?

Turn over

- 19. How does carbon monoxide pollutant effect our body?
- 20. What is the advantages of adding Gypsum to the soil?
- 21. What is meant by Water Quality Index? How is DO in water expressed? What happens when DO falls very low?
- 22. What do you mean by Renewable sources of energy? Explain giving examples.
- 23. What are the sources of lead pollution? Explain the Toxic effect of lead pollution.
- 24. What is meant by Noise Pollution? What are its consequences?

 $(5 \times 1 = 5)$

Section C

Answer any four questions. Each question carries a weight of 2.

- 25. Describe Briefly on Noise Pollution.
- 26. Discuss briefly on solid waste-management.
- 27. Discuss air pollution with special references to oxides of sulphur and oxides of Nitrogen.
- 28. Write briefly on Non-conventional sources of energy and its advantages in detail.
- 29. Discuss briefly on the Scope and concepts of Environmental Planning.
- 30. Discuss briefly on water quality parameters and their standards.

 $(4 \times 2 = 8)$

Section D

Answer any two questions. Each question carries a weight of 4.

- 31. Analyse critically the factors responsible for air pollution and suggest remedial measures.
- 32. Describe Briefly on the following:
 - (a) Ozone depletion.
 - (b) Indoor air pollution.
 - (c) Effect of Electric and Magnetic field in the Environment.
- 33. Describe the methods for the estimation of the following water quality parameters;
 - (a) Sulphide.
 - (b) Chloride.
 - (c) Hardness.
 - (d) Phosphate.
 - (e) Mercury.