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B.S.C. DEGREE (C.B.C.S.S) EXAMINATION, JANUARY 2019

(2016 Admission Supplementary)

SEMESTER V - OPEN COURSE (CHEMISTRY) CH5BO9TB - ENVIRONMENTAL CHEMISTRY

Time: 3 Hours

Maximum Marks: 80

Part A

I. Answer all questions. Each question carries 1 marks

(6x1=6)

- 1. ----is the world environment day
- 2. As(III) attacks.....groups of an enzymes
- 3. Smog is a mixture of ----- and -----
- 4. Name the heavy metal connected with Minamata disaster.
- 5. HVS is used in sampling.....in air
- 6. Calcium deficient soils are treated with.......

Part B

II. Answer any Seven questions. Each question carries 2 marks

(7x2=14)

- 7. Define source. Give example
- 8. Discuss two benefits of ISO14001
- 9. What are the major pathways of lead in the environment?
- 10. Suggest antidote for Hg poison and remedial measures for Hg poison
- 11. What are the remedial measures to prevent Hg pollution?
- 12. Oxygen plays a key role in the troposphere while ozone in the stratosphere. Explain.
- 13. Define builders with suitable examples.
- 14. Differentiate between COD and BOD
- 15. How is water desalination done by ion exchange method?
- 16. Mention few cleaning options of soil.

Part C

III. Answer any Five questions. Each question carries 6 marks

(5x6=30)

- 17. Explain briefly on non-conventional energy sources
- 18. Explain the biochemical effects of As and Cd.
- 19. Write a note on radiation pollution, its source and impact on environment
- 20. Write a note on (a) Water Quality Index and (b) water Quality Standards
- 21. Describe the Ultra Filtration technique and Electro dialysis for water purification
- 22. What are the important methods to remove particulates in purifying air?
- 23. Explain in brief any two methods used in sampling of ambient air?
- 24. Explain the sampling procedures used to determine soil pollution?

Part D

IV. Answer any Two questions. Each question carries 15 marks

(2x15=30)

- 25. a.Briefly discuss the basic principles and methodology if ISO14001 system b. What are the biochemical effects caused by pesticides. Give examples?
- 26. What is acid rain? Explain its formation, adverse effects and control measures.
- 27. a. Define Water pollution. Briefly discuss about different type of waste pollution. b.Write an essay on solid waste management.
- 28. How dangerous is the impact caused by plastic effects soil? Suggest measures to overcome it?