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B.S.C. DEGREE (C.B.C.S.S) EXAMINATION, OCTOBER 2018

(2016 Admission Regular & 2015 Admission Supplementary)

SEMESTER V - OPEN COURSE (CHEMISTRY) CH5B09TB - 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. Name the heavy metal pollutant that caused "Itai..itai" disease.
- 3. Gas responsible for Bhopal gas tragedy is -----
- 4. Name some inorganic pollutants in water
- 5. HVS is used in sampling.....in air
- 6. Leaf neurosis is due to.....

Part B

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

(7x2=14)

- 7. What are non-renewable energy sources? Give examples
- 8. Give two methods to achieve EMS
- 9. How does CO pollutant effect our body?
- 10. What are the antidotes used for cyanide pollution?
- 11. What are the major pathways of lead in the environment?
- 12. What is SPM? What are its sources.
- 13. Define builders with suitable examples.
- 14. How is water desalination done by ion exchange method?
- 15. What is Greenhouse effect?
- 16. Define gypsum requirement of soil.

Part C

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

(5x6=30)

- 17. What are the steps involved in environmental planning. Explain
- 18. Describe the toxic effects of oxides of nitrogen and sulphur.
- 19. Write a note on radiation pollution, its source and impact on environment
- 20. Discuss briefly on water quality parameters and their standards
- 21. Write a note on (a) Water Quality Index and (b) water Quality Standards
- 22. Suggest methods that can be adopted to control air pollution.
- 23. Explain in brief any two methods used in sampling of ambient air?
- 24. Write a note on "soil horizon".

Part D

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

(2x15=30)

- 25. a. What is environmental management system [EMS]. How can it be achieved. b. What are the biochemical effects of cyanide? Suggest antidotes for cyanide poison
- 26. What is meant by ozone layer? What is its significance? What are the reasons for the depletion of ozone layer? Comment on the consequences of ozone layer depletion
- 27. a. Discuss briefly on the methods used for waste water treatment. b. Write notes on how plants, animals and microorganisms for controlling pollution and treatment of effluents.
- 28. Discuss briefly on sampling procedures and analysis of soil normally done for Kerala type Agriculture?