TB156205A

Reg. No :.....

Name :.....

B. SC. DEGREE (C.B.C.S.S) EXAMINATION, MARCH 2018

(2015 Admission Regular)

SEMESTER VI - CORE (CHEMISTRY)

CH6B14TB - ENVIRONMENTAL CHEMISTRY

Time : 3 Hours **Maximum Marks : 80**

Part A

I. Answer all questions. Each question carries 1 marks **(6x1=6)**

1. Itai-Itai disease is caused due to ----------
2. The region of earth which includes all water sources are called ----------
3. The element or organism which consumes a pollutant is called----------
4. Example for a primary energy source is ----------
5. Decibel is unit of ----------
6. Dissolved oxygen is expressed as ……..

Part B

II. Answer any Seven questions. Each question carries 2 marks **(7x2=14)**

7. Give two methods to achieve EMS
8. What is polluter pay principle ?
9. Differentiate pollutant and contaminent.
10. Define sink. Give example.
11. What is Environmental limit ?
12. How can radiation pollution be minimized.
13. Mention few cleaning options of soil?
14. Define Biodegradation. Mention its effect
15. What are Scrubbers?
16. Mention the advantages of waste recycling.

Part C

III. Answer any Five questions. Each question carries 6 marks **(5x6=30)**

17. Discuss about EIA, its concepts, objectives and steps involved.
18. Discuss the different methods employed for sampling pollutants in air
19. Describe the ultrafiltration technique for the purification of industrial waste water
20. Breifly explain the iodometric estimation of dissolved oxygen.
21. Write a short note on solid waste management.
22. Explain the sampling procedures used to determine soil pollution.
23. Differentiate between Photometry and flame photometry.
24. Briefly explain the classification on the types of waste.

Part D

IV. Answer any Two questions. Each question carries 15 marks **(2x15=30)**

25. a) Discuss Chernobyl disaster b) Discuss noise pollutions, its classification, hazards and control measures.
26. a)Discuss the different types of waste water treatment techniques b) Write an essay on solid waste management.
27. How can we use ICPES with respect to the analysis of marine samples.
28. Explain the important methods to remove particulates in purifying air.