

**18U614**

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Name: .....

Reg. No.....

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2021**

(CUCBCSS-UG)

(Regular/Supplementary/Improvement)

**CC15U CHE6 E03 - MEDICINAL AND ENVIRONMENTAL CHEMISTRY**

(Chemistry - Elective Course)

(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

**Section A** (one word)

Answer *all* questions. Each question carries 1 mark.

1. Dissolved oxygen is expressed as .....
2. .... is the main protein in blood plasma.
3. Give any two drugs used in the treatment of tuberculosis.
4. .... is the element responsible for the Minamata disaster.
5. .... is the acid present in acid rain.
6. What is photochemical smog?
7. Define ecosystem.
8. What is biological magnification?
9. Anthrax is caused by .....
10. What are CFCs?

**(10 x 1 = 10 Marks)**

**Section B** (Short answers)

Answer any *ten* questions. Each question carries 2 marks.

11. What is meant by threshold limiting value?
12. What are the causes and symptoms for lung cancer?
13. Explain the use of Cottrell electrostatic precipitator?
14. Describe the toxicological effect of asbestos.
15. Discuss briefly alternate refrigerants.
16. Define COD.
17. What do you understand by Rh factor?
18. How will you calculate the therapeutic index of a drug?
19. What are the medicinal uses of Neem plant and Hibiscus?
20. Write a note on rain water harvesting.
21. Explain briefly the USAB process.

22. Give the harmful effects of As and Hg.

**(10 x 2 = 20 Marks)**

**Section C (Paragraphs)**

Answer any *five* questions. Each question carries 6 marks.

23. What are the symptoms of Cholera and Typhoid?

24. Explain the principle and application of cyclonic separation.

25. Explain the term prodrugs with suitable examples.

26. What is meant by blood transfusion? Explain.

27. Write a note on immunoassays.

28. What are persistent organic pollutants? Explain.

29. Explain how snake bite is treated.

30. Write a short note on air borne diseases.

**(5 x 6 = 30 Marks)**

**Section C (Paragraphs)**

Answer any *two* questions. Each question carries 10 marks.

31. What are the control measures to check air pollution?

32. (a) What are the various components of wet scrubber systems?

(b) Explain the various health standards fixed by WHO.

33. Explain the different routes of drug administration.

34. Discuss the various processes involved in the water treatment.

**(2 x 10 = 20 Marks)**

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