

17U614

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Name:

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2020

(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

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

1. ----- is the main protein present in plasma of blood.
2. What is the pH range of Blood?
3. Define the term The LD₅₀
4. What is MSDS for toxic substances?
5. Name the microbial agent responsible for Cholera.
6. Which metal ion is involved in Winkler's titration test?
7. What is TDS?
8. Write an example for coagulant used sedimentation process.
9. Which is the main constituent of biogas?
10. Name the pollutant involved in London smog.

(10 x 1 = 10 Marks)

Section B

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

11. What are the common symptoms for Hepatitis A?
12. How is therapeutic index of a drug calculated?
13. What is COD?
14. What is meant by desalination?
15. What is USAB process? What are the merits?
16. How will you determine the concentration of CO in air?
17. What are the toxicological effects of Mercury?
18. What are the major lifestyle factors leading to hypertension?
19. What is blood transfusion?
20. What do you meant by drug abuse?

21. Give any 2 medicinal uses of Aloe Vera & Thulasi.
22. What is terminal cancer?

(10 x 2 = 20 Marks)

Section C

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

23. What are the risk, causes, diagnostic method, treatment and prevention of Anthrax?
24. Explain the various health standards fixed by WHO.
25. What are anion & cation exchangers? How does it function in the process of water purification?
26. Explain the chemistry behind Cottrell electrostatic precipitator.
27. What are prodrugs? Give examples.
28. What is Thalidomide tragedy?
29. Explain the role of catalytic converters in the air pollution control measures.
30. How will you determine the concentration of dissolved oxygen by Winkler's titration test?

(5 x 6 = 30 Marks)

Section D

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

31. Discuss the causes, symptoms & drugs used for the treatments of Influenza, Tuberculosis, Dysentery & Typhoid fever.
32. Explain the toxicological effect of Asbestose, CCl₄, dioxins & Endosulphan.
33. Write an essay on air pollution control measures.
34. Write an essay on different types of water purification processes.

(2 x 10 = 20 Marks)
