

20U633S

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Name:

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023

(CUCBCSS-UG)

CC15U CHE6 E03 – MEDICINAL AND ENVIRONMENTAL CHEMISTRY

(Chemistry - Elective Course)

(2015 to 2018 Admissions – Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

Section A (One word)

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

1. What is the pH range of Blood?
2. is the main protein in blood plasma?
3. Keezharnelli is widely used for treating
4. Name of the drug used against tuberculosis is
5. Anthrax is an infection caused by bacteria.
6. Define the term LD₅₀
7. What is the antidote for arsenic poisoning?
8. Kidney stone is chemically
9. Which is the main constituent of biogas?
10. is the amount of oxygen required to oxidize only organic matter in sewage?

(10 × 1 = 10 Marks)

Section B (Short answer)

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

11. What are the common symptoms of for Hepatitis A?
12. What are the causes and symptoms for lung cancer?
13. Distinguish between drug and prodrug.
14. How is therapeutic index of a drug calculated?
15. What is hypercholesterolemia? Name a drug used for its treatment.
16. Write a note on Rh factor.
17. What is Threshold Limiting Value?
18. What are the toxicological effects of Mercury?
19. Explain the neurological effects of H₂S.
20. Explain the basic principle of cyclone collector.
21. What is BOD and its significance?
22. What are the characteristics of industrial waste water?

(10 × 2 = 20 Marks)

Section C (Paragraph)

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

23. What are the different components in blood and explain the roles of each component?
24. Write a note on immunoassays.
25. Discuss the causes, symptoms and drugs used for the treatment of typhoid and cholera.
26. Discuss the treatment for poisons due to snake bite and arsenic.
27. Explain the control of air pollution by catalytic converters and Cottrell electrostatic precipitator.
28. Explain persistent organic pollutants (POP). What are its effects on ecosystem?
29. What is COD? Explain the principle and procedure for the determination of COD.
30. Explain USAB process.

(5 × 6 = 30 Marks)

Section D (Essay)

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

31. What are persistent organic pollutants? Explain the toxicological effects of dioxin, endosulphan, and DDT.
32. (a) Write notes on (a) Thalidomide tragedy (b) Therapeutic index.
(b) Explain the causes, symptoms and treatment of Lung cancer.
33. Explain the routes of drug administration.
34. Discuss the various sampling methods used for gases and vapors.

(2 × 10 = 20 Marks)
