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Name:

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2022

(CUCBCSS-UG)

CC15U CHE6 E03 - MEDICINAL AND ENVIRONMENTAL CHEMISTRY

(Chemistry - Elective Course)

(2016 to 2018 Admissions – Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

Section A (One word)

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

1. The blood group, which is called universal donor, is _____
2. _____ and _____ are the examples for two prodrugs.
3. Thulasi is widely used for treating of _____
4. Name of the drug used against tuberculosis is _____
5. Anthrax is an infection caused by _____ bacteria.
6. Draw the structure of endosulphan.
7. What is the antidote for arsenic poisoning?
8. Kidney stone is chemically _____
9. GC-MS is best suited for the identification of low level of _____
10. What is asbestosis?

(10 × 1 = 10 Marks)

Section B (Short answer)

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

11. Why is a person with type AB positive blood called a universal acceptor?
12. What are the precaution are to be taken during blood transfusion?
13. Distinguish between drug and prodrug.
14. What are the medicinal application of the plant Kizharnelli ?
15. What is hypercholesterolemia? Name a drug used for its treatment.
16. What is terminal cancer?
17. What is Threshold Limiting Value?
18. Why asbestos is harmful to human health?
19. Explain the neurological effects of H₂S.
20. Explain the basic principle of Cottrell electrostatic precipitator.
21. What is COD and its significance?
22. What is deep well injection and its importance?

(10 × 2 = 20 Marks)

Section C (Paragraph)

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

23. Explain biochemical analysis of urine and serum
24. Write notes on (a) Thalidomide tragedy (b) Therapeutic index.
25. Discuss the causes, symptoms and drugs used for the treatment of cholera and dysentery.
26. Discuss the treatment for poisons due to snake bite and arsenic.
27. Explain the control of air pollution by catalytic converters and cyclone collector.
28. Discuss the various sampling methods used for particulate matter.
29. What is BOD? Explain the principle and procedure for the determination of BOD.
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. Discuss the causes, symptoms and drugs used for the treatment of any three air-borne diseases.
33. Explain the routes of drug administration.
34. Explain various stages of sewage water treatment process.

(2 × 10 = 20 Marks)
