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Name : .....

Reg No. : .....

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2025**

(CBCSS-UG)

(Regular/Supplementary/Improvement)

**CC19U CHE6 B13 - MEDICINAL AND ENVIRONMENTAL CHEMISTRY**

(Chemistry - Elective Course)

(2019 Admission onwards)

Time: 2 Hours

Maximum: 60 Marks

Credit: 2

**Part A** (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Explain the physical examination of urine.
2. What is prodrug?
3. Explain drug dosage.
4. Give two examples for first line drugs used in TB treatment.
5. Mention some ways to prevent cancer.
6. Explain lead poisoning.
7. What is Marlow Syndrom?
8. What is MIC? Why is it infamous in India?
9. What are the technique used for the monitoring of particulate matter pollution?
10. What is fabric filter?
11. What is secondary treatment in sewage water treatment process?
12. What is destructive method used for industrial sewage water treatment process?

**(Ceiling: 20 Marks)**

**Part B** (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Discuss the biochemical analysis of urine.
14. Explain the terms LD50 and ED50.
15. What is hypertension? Discuss the causes, symptoms and treatments for it.
16. Give an account of benzene poisoning.
17. Explain sampling of particulate pollutants using impingement.

18. Explain Cottrell electrostatic precipitator and its advantages and disadvantages.

19. Explain USAB process.

**(Ceiling: 30 Marks)**

**Part C (Essay questions)**

Answer any *one* question. The question carries 10 marks.

20. Discuss the causes, symptoms and treatments for (i) cholera, (ii) dysentery and (iii) typhoid fever

21. Discuss the composition, grouping and Rh factor of blood.

**(1 × 10 = 10 Marks)**

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