

19U615

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Name: .....

Reg.No: .....

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2022**

(CBCSS - UG)

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

(Chemistry - Core Course)

(2019 Admission - Regular)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

**Part A** (Short answer questions)

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

1. Define mental health.
2. Discuss the composition of blood
3. Name any three assay of drugs.
4. Recommend two lifestyle changes that can lower blood pressure levels.
5. Mention some ways to prevent cancer.
6. Which are the main classes of dioxins?
7. What is extraction ventilator?
8. Explain sampling of particulate pollutants using high volume filtration.
9. What are the technique used for monitoring of NO<sub>x</sub> pollution?
10. What is ion exchange process used in industrial waste water treatment?
11. What are the disadvantages of autothermal thermophilic aerobic digestion (ATAD)?
12. Explain the determination of settleable solids in sewage water sample.

**(Ceiling: 20 Marks)**

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

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

13. Explain the action of prodrug with example.
14. Explain over dosage of drug.

15. Discuss the symptoms and treatments for chickenpox.
16. Our body can tolerate low levels of H<sub>2</sub>S indefinitely, how? What are the treatments given for extreme H<sub>2</sub>S poisoning?
17. Explain sampling of gases and vapours using absorption of liquids.
18. Explain the monitoring of particulate matter pollution.
19. What is anaerobic treatment 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 briefly about the different procedure used for the industrial sewage water treatment process.

**(1 × 10 = 10 Marks)**

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