



Date: 21-11-2024

Dept. No.

Max. : 100 Marks

Time: 01:00 pm-04:00 pm

SECTION A**Answer ANY FOUR of the following****4 x 10 = 40 Marks**

1. List the characteristics of an ideal disinfectant.
2. What are lipoproteins? Mention their types and roles.
3. Mention the physiological effects of four functional groups in a drug.
4. What are narcotic analgesics? Write down the uses and structure of morphine.
5. Mention any four depressant drugs and their uses.
6. Write a note on chemotherapy.
7. Distinguish between hard and soft drugs with suitable examples.
8. Describe the stereochemical aspects of drug action.

SECTION B**Answer ANY THREE of the following****3 x 20 = 60 Marks**

9. Discuss briefly the salicylic acid and p-aminophenol derivatives as potent antipyretic analgesics.
10. (a) What is anaemia? Explain its classification. (10)
(b) Explain the determination of urine sugar by Benedict's method. (10)
11. (a) Explain the structure and uses of tetracycline. (10)
(b) Write a note on the structural modification of quinone. (10)
12. (a) Describe the structure and uses of streptomycin. (10)
(b) Discuss the serendipity in drug discovery with a suitable example. (10)
13. (a) Explain the characteristics of a prodrug. (10)
(b) Describe the structure activity relationship of a drug molecule based on Hansch's plot. (10)
14. (a) Explain the functions of linkers in a solid phase combinatorial synthesis. (10)
(b) Discuss the significance of QSAR electronic parameters like Hammett constant and Taft's substituent constants. (10)
