

Time: 3 Hours

[Max. marks : 70]

**Medicinal Chemistry II**

QP Code: 2619

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.

**LONG ESSAY (Answer any two)****2 X 10 = 20 Marks**

1. Describe the strategies for effective treatment of tuberculosis. Classify anti tubercular drugs with examples. Outline the synthesis of Isoniazid
2. Classify Diuretics with examples. Give a note on high ceiling or loop diuretics and give the synthesis of furosemide
3. Classify Anti neoplastic agents. Write the mechanism of action of alkylating agents and anti metabolites. Give the synthesis of cyclophosphamide.

**SHORT ESSAY (Answer any six)****6 X 5 = 30 Marks**

4. Write structure activity relationship of antibacterial quinolones
5. Classify local anti-infective agents with examples. Outline the synthesis of furazolidone.
6. Write a note on synthetic anti-fungal agents. Outline the synthesis of tolnaftate.
7. Classify viral diseases and enumerate the drugs used in the therapy. Explain the mode of action. Give the structure and medicinal uses of zidovudine.
8. Explain the structure activity relationship of tetracyclines.
9. What are anthelmintics? Give examples. Outline the synthesis of Diethyl carbamazine
10. Explain the chemistry, mechanism of action and medicinal uses of streptomycin
11. Give an account of antihyperlipidemic agents.

**SHORT ANSWERS****10 X 2 = 20 Marks**

12. Give structures of two carrier linked prodrugs.
13. Give the structure of two anti-malarial drugs with their mode of action.
14. Write the structures and uses of clauvalanic acid
15. Give example for Beta – adrenergic blocking agents with their therapeutic uses.
16. Name any two anti-coagulants with their mechanism of action.
17. Outline the synthesis of metronidazole
18. Write the structure and uses of Felodipine and cyclandelate
19. What are ACE inhibitors give examples?
20. Write the structure and uses of thyroid hormones.
21. Outline synthesis of uses of Dapsone.

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