



Medicinal Chemistry-II (Natural Products)

(Revised Scheme 4)

Q.P. CODE: 9348

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

1. Elucidate the structure of reserpine.
2. With suitable examples, describe the modifications carried out to obtain orally active penicillins and cephalosporins.
3. Discuss the chemistry and biological importance of male and female sex hormones.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Give the structure and function of any two vinca alkaloids and elucidate the structure of any one of them.
5. What are cardiac glycosides? Explain their chemistry and SAR.
6. Explain the chemical features and mechanism of purine and pyrimidine antimetabolites as anti-neoplastic agents.
7. Write the synthesis of an anti-fungal agent and an antipseudomonal penicillin.
8. Write a note on microbial conversions as a tool in the preparation of drugs.
9. Write a note on chemistry of fat soluble vitamins.

SHORT NOTES

2 X 5 = 10 Marks

10. Write the synthesis of an antipseudomonal cephalosporin.
11. Write the structures of Nocardicins with their therapeutic uses.

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