



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. Answer any ten questions.

LONG ESSAY (Answer any TEN)

10 X 10 = 100 Marks

1. Explain the degradation methods used in elucidating the structure of alkaloids.
2. Describe SAR of cardenolides as positive inotropic agents. Comment on the nonsteroidal molecules with cardiotonic activity.
3. Prove the structure of Vitamin B₆ based on its chemical degradation and synthesis.
4. Explain the various types of microbial transformation reactions giving suitable examples.
5. Discuss the chemistry and therapeutic uses of natural and synthetic derivatives of male and female sex hormones.
6. Explain the development of Antifertility agents with suitable examples.
7. Describe the early Penicillins. Add a note on the chemistry and SAR of Penicillins along with any one synthesis.
8. Describe the chemistry and development of β – lactamase stable Cephalosporins.
9. Explain the chemistry of Antimetabolic class of antineoplastic agents.
10. Illustrate the metabolism of Purines and Pyrimidines.
11. Outline the synthesis of (a) Testosterone (b) Progesterone.
12. Describe the chemistry and synthesis of Riboflavin.

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