



Medicinal Chemistry – I (Drug Design)
(Revised Scheme 4)

Q.P. CODE: 9347

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. Explain the design concept of any one enzyme inhibitor and classify enzyme inhibitors.
2. Write short notes on: - (a) Receptor-Ligand interaction (b) Receptor Binding Assays (c) Functional Assays (d) Receptor sources.
3. What do you mean by immune response? Explain the drugs affecting immune response.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. How will you explain relationship between physical properties and biological activity by using Hammett and Taft equations?
5. Enumerate and explain computational Protein-Ligand Docking techniques.
6. Describe the molecular modeling in drug design using lead optimization.
7. Discuss the prodrugs of various functional groups.
8. Explain Human growth hormone using t-PA development concept.
9. Write a note on drug design and discovery.

SHORT NOTES

2 X 5 = 10 Marks

10. Application of Free-Wilson analysis
11. Topological Drug classification
