



**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

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