



**MEDICINAL CHEMISTRY I (DRUG DESIGN)**

**PAPER III  
(RS 2 & RS 3)**

**Q.P. CODE: 9233**

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

**LONG ESSAY (Answer any TWO)**

**2 X 20 = 40 Marks**

1. a) Explain the merits and de-merits of Hansch analysis and Free Wilson analysis.  
b) Explain in detail about enzyme inhibitors
2. a) Explain the role of molecular modeling in drug design.  
b) Write a note on drug receptor interaction.
3. a) Distinguish between proton pump inhibitors and H<sub>2</sub> receptors blocker.  
b) Discuss in detail about Epitope mapping  
c) Explain drug metabolism with emphasis on "Stereochemical aspects"

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Write the effect of bioisosterism and partition coefficient on biological activity
5. Explain the pharmacokinetic objective in the design of prodrugs.
6. Write a note on Rigid analogs.
7. Write an account of Immuno stimulants.
8. Explain the complex events that following the administration of drug orally.
9. Outline the various strategies adopted in the design of anti-neoplastic drugs and with suitable examples

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. Add a note on the application of free Wilson analysis
11. Add a note on Immno suppressive agents.

\* \* \* \* \*