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Rajiv Gandhiwwniversitycerf Health Scirenceson

First Year M. Pharm Degree Examination – Nov 2011

[Time: 3 Hours]

### **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)

- a) Explain the merits and de-merits of Hansch analysis and Free Wilson analysis.
  b) Explain in detail about enzyme inhibitors
- a) Explain the role of molecular modeling in drug design.
  - b) Write a note on drug receptor interaction.
- 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)

- 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

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

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2 X 20 = 40 Marks

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5 X 10 = 50 Marks

2 X 5 = 10 Marks

[Max. Marks: 100]

