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First Year M. Pharm Degree Examination – May 2013

[Time: 3 Hours]

[Max. Marks: 100]

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 about molecular modeling in drug design. 1. (b) Write a note on drug receptor interaction.
- 2. (a) Explain the merits and de-merits of Hansch and free Wilson analysis.
 - (b) Discuss in detail about enzyme inhibitors
- 3. (a) Discuss the theoretical and practical aspects of Microbial transformation in the production of some steroidal drugs
 - (b) Give an account on gastric-acid inhibitors.

SHORT ESSAY (Answer any FIVE)

- What are pro drugs? Explain the various aspects governing pro-drug design 4.
- Give an account of quantum mechanics 5.
- (a) Explain the design of non-covalently binding enzyme inhibitors. 6. (b) Write a note on the agents under development for HIV infection.
- 7. (a) Discuss the design of analogues by bioisosteric replacement. (b) Give an appropriate example of the role of recombinant DNA technology in drug discovery.
- Explain with suitable examples how partition coefficient and hydrogen bonding affect the 8. biological activity of a drug.
- 9. Discuss in detail the test assays used in testing proton pump inhibitors

SHORT NOTES

- 10. Add a note on Immuno stimulants with suitable examples
- 11. Add a note on Human growth hormone.

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2 X 20 = 40 Marks

5 X 10 = 50 Marks

2 X 5 = 10 Marks