

Rajiv Gandhiwwnfiversokeycorf Health Sciencesom

First Year M.Pharm Degree Examination - October 2010

[Time: 3 Hours]

MEDICINAL CHEMISTRY I (DRUG DESIGN)

PAPER III

(Revised Scheme 2)

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 development of t-PA as therapeutic agent.
 b) Write about microbial transformation.
- 2. Explain various mathematical methods for the analysis of QSAR.
- a) Give the chemistry and uses of irreversible gastric proton pump inhibitors.b) Explain the role of quantum mechanics in drug design

SHORT ESSAY (Answer any FIVE)

- 4. Write various approaches of enzyme inhibitors in rational drug design.
- 5. How microbial conversions are useful as tools in the preparation of drugs.
- 6. Enumerate the different methods in the calculation of partition co-efficients.
- 7. Explain about Epitope mapping and human growth hormone in Recombinan-DNA technology.
- 8. Write various drug receptor interactions in quantitative analysis of SAR.
- 9. Classify immune respone agents with examples and write their SAR.

SHORT NOTES

- 10. Add a note on Hansch analysis.
- 11. Hydrogen bonding with respect to biological activity

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2 X 20 = 40 Marks

5 X 10 = 50 Marks

2 X 5 = 10 Marks

[Max. Marks: 100]

