

[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)**2 X 20 = 40 Marks**

1. a) Explain about Drug receptor interactions in biological activity
b) Write various microbial conversions used in the preparation of drugs with examples.
2. Explain various aspects governing prodrug design.
3. Write various applications of molecular & quantum mechanics in drug design.

SHORT ESSAY (Answer any FIVE)**5 X 10 = 50 Marks**

4. Write about production of drugs from recombinant DNA technology.
5. Explain the role of enzyme inhibitors in rational drug design give suitable examples
6. Classify proton pump inhibitors and explain the mechanism of them in gastric acid secretion inhibition.
7. Explain about Hansch and Free Wilson analysis.
8. Write the therapeutic aspects of Epitope mapping.
9. Write about any two mathematical methods for the analysis of QSAR.

SHORT NOTES**2 X 5 = 10 Marks**

10. Add a note on Physical properties related to potency of drugs.
11. Add a note on immunosuppressive agents.

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