



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 historical development of QSAR.
b) Explain the design of stereo and geometric isomers.
2. What is protein engineering and site directed mutagenesis? Give it's development as therapeutic agent.
3. a) Explain the role of proton pump inhibitors in therapeutic use.
b) Explain the applications of Hansch analysis.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Explain the role of Bioisosteric replacements and rigid analogs in drug design.
5. Explain various practical aspects of microbial transformation.
6. Give various approaches to rational drug design of non-covalently binding enzyme inhibitors.
7. Discuss about immunosuppressive and immounostimulative agents.
8. Write about the development and uses of pro drug design.
9. Write about the theoretical aspects of drug action.

SHORT NOTES

2 X 5 = 10 Marks

10. Add a note on recombinant DNA technology
11. Write a note on the importance of ACE inhibitors.

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