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straRajix Gandhi University of Health Science www.FirstRanker.com First Semester M. Pharm Degree Examination - JUNE-20

Time: Three Hours

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Advanced Medicinal Chemistry Q.P. CODE: 5119

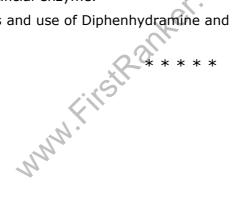
Your answers should be specific to the questions asked. Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three)

- 1. Explain the principles of Enzyme inhibitors. Explain any method used of the design of enzyme inhibition.
- 2. Explain Stereochemistry of drug action with example.
- 3. Explain the concept of prodrug in detail. Write a note on carrier linked prodrug with example.
- 4. Explain and classify anticonvulsant agents with example. Write the synthesis and mechanism of action of Diazepam.

SHORT ESSAY (Answer any Nine)

- 5. Explain various theories of drug-receptor interaction with example.
- 6. Write a brief note on designing of peptidomimetics.
- 7. Explain various strategies followed to combat drug resistance in anticancer therapy.
- 8. Write a note on COX-2 inhibitors. Write the synthesis of any one COX-2 inhibitor.
- 9. Write a note on rigid analog strategies and alteration of chain branching in designing an analog.
- 10. Write a note on the chemistry of prostaglandins.
- 11. Classify antiviral agents with examples. Write the synthesis of Zidovudine.
- 12. Classify anticancer agents with example. Explain the synthesis of any one anticancer agent.
- 13. Write a note on artificial enzyme.
- 14. Write the synthesis and use of Diphenhydramine and Cimetidine.



3 X 10 = 30 Marks

9 X 5 = 45 Marks

Max. Marks: 75 Marks