PAPER III

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

Q.P. CODE : 9233

LONG ESSAY (Answer any TWO)

- 1. What is protein engineering and site directed mutagenesis? Explain their use in development of therapeutic agent.
- 2. Explain the following with examples. a) bioisosteric replacement b) homologation of alkyl chain c) Rigid analogs (8+6+6)
- 3. Write importance of ACE inhibitor. Explain Chemistry of ACE along with SAR of ACE inhibitors.

SHORT ESSAY (Answer any FIVE)

- 4. Enlist various micro organisms used as a biocatalyst. Explain use of biocatalyst in preparatiOon of Drugs with suitable examples.
- 5. Enlist various methods for calculation of partition coefficient. Explain any one.
- 6. Classify proton pump inhibitors. Write SAR, use and side effects of omeprazole as proton pump inhibitors.
- 7. What are immunosuppressive agents? Explain their need as a therapeutic agent with suitable examples?
- 8. How will you develop HIV-tat inhibitor using recombinant DNA techniques? Justify the answer with suitable examples.
- 9. Explain various therapeutic aspects of microbial transformation. st www.firstRanker.com

SHORT NOTES

- 10. Prodrug design.
- 11. Free Wilson Analysis.

2 X 5 = 10 Marks

2 X 20 = 40 Marks

5 X 10 = 50 Marks

