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[Max. Marks: 75] [Time: 3 Hours]

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)

 $3 \times 10 = 30 \text{ Marks}$

- Classify antineoplastic agents with examples. Give the MOA and synthesis of any one 1. antimetabolite drug.
- 2. Explain the significance of prodrugs in drug design and development with specific examples.
- 3. Write a note on enzyme inhibitors in basic research and medicine.
- 4. What do you understand by drug receptor interactions? Explain the theories of receptor interactions.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

- 5. What do you understand by drug resistance? Explain its causes.
- 6. Outline the biosynthetic pathway of prostaglandins.
- 7. Write a note on classical and non classical bioisosteric replacement strategies in analog deign of drugs.
- Write a note on COX2 inhibitors. Write the synthesis of any one COX2 inhibitor. 8.
- 9. Explain the MOA and synthesis of any one antiiviral drug.
- 10. What are H₂ receptor antagonists? Write the MOA and synthesis of any one H₂ receptor antagonist.
- 11. Write a note on principles of enzyme inhibitors.
- 12. Outline the design of peptidomimetics by modification of peptide backbone.
- 13. Write a note on solution phase synthesis.
- .sis\in 14. What do you understand by parallel synthesis in combinatorial chemistry? Explain with examples