



[Time: 3 Hours]

[Max. Marks: 75]

Advanced Organic Chemistry -II

Q.P. CODE: 5158

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three)

3 X 10 = 30 Marks

1. Write the methods involved in resolution of racemates briefly explain each.
2. Explain principle and applications of phase transfer catalysis.
3. Explain the side reactions in peptide synthesis.
4. Explain the applications in various organic reactions and heterocyclic synthesis of microwave assisted reactions.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

5. Write a note on photo oxidation and photo addition reactions.
6. Write a note on polymer supported catalysts.
7. What are electrocyclic reactions? Explain the mechanism in Diels Alder reaction.
8. Principles of solid phase peptide synthesis.
9. Write a note on peptide bond formation.
10. Explain principle of liquid phase peptide synthesis.
11. Note on green reagents.
12. Explain enantiopure separation and stereo selective synthesis with examples.
13. Explain axis of symmetry and meso compounds.
14. Explain the synthetic applications of ultrasound assisted reactions.

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