



3 X 10 = 30 Marks

- What is ultrasound assisted www.firstBanker.com
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 their applications.
- Describe coupling reaction in peptide synthesis with suitable examples.
- Enumerate different types of Pericyclic reactions with examples. Write a note on electro-cyclic reaction with example.
- What is racemic modification? Discuss the different methods of resolution of racemic mixtures.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

- Define green chemistry. Write the principle of green chemistry.
- 6. Explain the effects of solvents in microwave assisted reactions.
- Explain site specific chemical modification of peptide.
- 8. Describe formation of peptide and peptide amide with suitable examples.
- Explain Cycloaddition reaction with example.
- 10. Discuss the importance of transition metal in metal catalysed reaction.
- 11. Describe briefly about Zeigler-Natta catalyst.
- Explain with suitable examples use of enzymes in organic synthesis.
- 13. Describe Fischers D and L notation and E and Z notation.
- 14. Write a note on Stereo selective synthesis with examples.

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