



- Notes :
1. All question carry equal marks.
 2. Answer **any five** question.
 3. Illustrate your answer necessary with the help of neat sketches.
 4. Discuss the reaction, mechanism wherever necessary.

1. Explain following terms. 12
 - i) Geometric isomerism.
 - ii) Racemic modification & its resolution.
 - iii) Conformational isomerism.
 - iv) Diastereomers.
2. Write in detail about structure, synthesis and reaction of naphthalene. 12
3.
 - i) Explain about general methods of preparation and mechanism of esterification of carboxylic acid. 6
 - ii) Explain about general methods of preparation and reaction of acid halide. 6
4. Describe following reaction in detail. 12
 - i) Cannizzaro's reaction.
 - ii) Reformatsky reaction.
5. Explain structure, stereochemistry, stability and generation of free radicals. 12
Describe about Kolbe electrolysis as free radical reaction.
6. Explain mechanism of following reactions. 12
 - i) Claisen and Dieckmann reaction.
 - ii) Michael addition and addition of Grignard reagent.
7. Write preparation methods and reaction of following. 12
 - i) Phenols.
 - ii) Sulphonic acids.
