

*B.Pharm. Fourth Semester (Old)*  
**35156 : Pharmaceutical Organic Chemistry - II**  
**T-4.2**

P. Pages : 1

Time : Three Hours

**AW - 2302**

Max. Marks : 60

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

1. Explain various methods of preparation of aldehydes and ketones. Describe aldol condensation reaction in detail. **12**
2. i) What is sequence rule? Write in detail about R & S configuration. **6**  
ii) What is mean by optical activity? Write about geometric and conformational isomerism with examples. **6**
3. Describe about structure, stereochemistry stability and generation of free radicals. Explain about Kolbe electrolysis reaction. **12**
4. Write in detail about structure, synthesis and reactions of naphthalene. **12**
5. i) Write methods of preparation and reactions of carboxylic acids. **6**  
ii) Explain mechanism of esterification of carboxylic acid. **6**
6. Write methods of preparation and reactions of following. **12**  
i) Phenols.  
ii) Sulphonic acids.
7. Write short note on **any two**. **12**  
i) Racemic modification & its resolution.  
ii) Mannich reaction.  
iii) Use of aceto-acetic ester in synthesis.

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