

AV – 2334

Fourth Semester B. Pharm. Examination

PHARMACEUTICAL ORGANIC CHEMISTRY – II

Paper – T – 4.2

(USC – 35156)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 60

- Note :** (1) All questions carry equal marks.
(2) Answer any **Five** questions.
(3) Diagrams and Chemical equations should be given wherever necessary.
(4) Discuss the reaction, mechanism wherever necessary.

1. (a) What is resolution ? Explain the different methods of resolution of racemic mixture. 6
(b) What is sequence rule ? Write in detail about R and S configuration. 6
2. Explain structure, stereochemistry, stability and generation of free radicals. Explain Kolbe electrolysis. 12
3. Write in detail about structure synthesis and reaction of naphthalene. Explain Enantiomers and Diastereomers. 12
4. Explain the various methods of preparation of aldehyde and ketones. Explain Aldol condensation reaction in detail. 12
5. Explain functional derivatives of carboxylic acids in detail and mechanism of esterification. 12
6. Explain methods of preparation and reactions of sulphonic acid. Describe cannizaro and Reformatsky reaction. 12

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P.T.O.

7. Write short notes on (Any **Two**) :—

- (a) Claisen and Dieckmann reaction.
- (b) Use of aceto – acetic ester and malonic ester in synthesis.
- (c) Phenols.

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