

www.FirstRanker.com

www.FirstRanker.com

[PHARMD 0122]

JANUARY 2022 (OCTOBER 2021 EXAM SESSION)

Sub. Code: 3804

 $(4 \times 10 = 40)$

 $(6 \times 5 = 30)$

PHARM. 'D' DEGREE EXAMINATION FIRST YEAR (2009-2010 Regulation) PAPER IV – PHARMACEUTICAL ORGANIC CHEMISTRY **O.P.** Code : 383804

Time : Three hours

Answer ALL Questions Maximum : 70 Marks

I. Elaborate on:

- 1. Discuss on the mechanism, kinetics and stereo chemistry of Aliphatic nucleophilic substitution with suitable examples.
- 2. Elaborate on the free radical halogenations reaction in alkenes. Compare free radical substitution with free radical addition.
- 3. Specify on the mechanism and ionization of carboxylic acids. Add a note on the conversion of acid to amide and este
- Ranker.com 4. Explain the following reactions: a) Fries Rearrangement. b) Reimer - Tiemann reaction.

II. Write notes on:

- 1. Briefly write on the polarity of molecules and bonds.
- 2. Explain how the nomenclature of the organic compound is expressed in case of aldehydes and dienes.
- 3. What are the various organic redox reactions? Give a note on any one reaction.
- 4. Give the preparation, assay and use of Lactic acid and Ethyl benzoate.
- 5. Jot down on the basicity of amines.
- 6. What is resonance and hyperconjugation? Add salient features on the resonance stabilization of allyl radicals.
