

Code: 15R00104

R15

B.Pharm I Year I Semester (R15) Regular & Supplementary Examinations January 2018

PHARMACEUTICAL ORGANIC CHEMISTRY – I

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Explain Inductive effect.
 - Give the structure of 3-bromo and 5-Iodo.
 - Give an example of trans hydroxylation.
 - What do you mean by retention of configuration in nucleophilic substitution reactions?
 - Give an example of Oppenauer oxidation.
 - What is the product obtained by HBr to 3 methyl hex-2-ene in presence of peroxide?
 - Give an example of Reformatsky reaction.
 - What is the structure of 3-bromo hexan-2-one?
 - Give an example of Conformational Isomerism.
 - What are the defining bond angles in SP³, SP², and SP hybridization of hydrocarbons?

PART – B
(Answer all five units, 5 X 10 = 50 Marks)**UNIT – I**

- 2 List the different kinds of organic reagents and reactions.
- OR**
- 3 How does the structure impact the BP, MP, RI, ST, and solubility of organic molecules? Give examples.

UNIT – II

- 4 Describe the various conformations of cyclohexane and their ring stabilities.
- OR**
- 5 Describe the Bromination of methane in presence of sunlight and heat.

UNIT – III

- 6 Illustrate Anti-Markovnikoff's rule, its modern definition with examples.
- OR**
- 7 Why peroxide effect is only shown by HBr and not by HF, HCl, and HI.

UNIT – IV

- 8 Explain the stereospecific reduction of alkynes with examples.
- OR**
- 9 Give the general methods of preparation of alkyl halides.

UNIT – V

- 10 How do you prepare primary, secondary and tertiary alcohols using Grignard reaction?
- OR**
- 11 What is Cannizzaro reaction and give the mechanism? What is cross-Cannizzaro reaction?
