2010 Scheme

QP CODE: 102006 Reg. No:

First Year B. Pharm Degree Supplementary Examinations January 2023 Pharmaceutical Chemistry - II

(Organic Chemistry)

Time: 3 Hours Total Marks: 100

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Write equations wherever necessary.

Essay (3x10=30)

- 1. Explain about inductive and electrometric effects
 - State and explain Bayers Strain theory
- 2. Describe the electrophilic substitution orientation of monosubstituted benzene with examples
- 3. Explain the following with reaction mechanism
 - Walden inversion
 - Aldol condensation

Short notes (14x5=70)

- 4. Describe Williamson's ether synthesis
- 5. What is Riemer-Tiemann reaction. Outline the reaction mechanism
- 6. Explain the terms of heat of combustion and hydrogenation
- 7. Give a note on 1,4-addition reactions of conjugated alkadienes
- 8. What is Fries rearrangement reaction. Outline the reaction mechanism.
- 9. Explain the concept of isomerism with examples
- 10. Give two methods of preparation for carbonyl compounds
- 11. Explain free radical substitution mechanism
- 12. State and explain anti-markownikov's addition
- 13. Hofmanns degradation of amides
- 14. Acidity of nitro compounds
- 15. Outline the reactions of Reformatsky reaction and Oppenauer oxidatioin
- 16. How do you distinguish different class of amines using Hinsberg method
- 17. Describe the synthesis of malonic esters
