2010 Scheme

QP CODE: 201006

Second Year B.Pharm Degree Supplementary Examinations July 2022

Pharmaceutical Chemistry III

(Advanced Organic Chemistry)

Time: 3 Hours

- 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
- Draw table/diagrams/flow charts wherever necessary

Essay

- 1. Write the definition, reaction, mechanism and applications of
 - Schmidt rearrangement
 - Birch reduction
- 2. Write in detail about asymmetric synthesis.
 - Describe the stereochemistry of cyclic compounds
- 3. •What are conformational isomers and write in detail about conformational analysis.
 - Describe the modern theories of double bond with suitable examples.

Short notes

- 4. Give important chemical reactions of Pyridine.
- 5. Give the Halogenation, Coupling reaction and Reduction reaction of Furan
- 6. Explain any five methods of resolution of racemic mixture.
- 7. Describe metal hydride reduction in detail
- 8. Describe the any three important Synthesis of isoxazole
- 9. Explain the Sequence rule for assigning configuration of optical isomers
- 10. Explain the following reactions:
 - Friedel-craft acylation of thiophene
 - Reimer-Tiemann Formylation of indole.
- 11. Discuss in detail the structure of naphthalene
- 12. Give reasons for the following.
 - Pyrrole undergoes electrophilic substitution at 2-position.
 - Pyridine undergoes electrophilic substitution at 3-position and nucleophilic substitution at 2- and 4-positions.
- 13. Explain the reduction process with hydrazine and its derivatives
- 14. Explain in detail the criterions for a compound to be optically active.
- 15. Explain DL system of nomenclature. What are its disadvantages.
- 16. Explain the factors affecting Walden inversion
- 17. Write any four reactions of isoquinoline.

(14x5=70)

Total Marks: 100

Reg. No:

(3x10=30)