2012 Scheme

QP CODE: 211006 Reg. No:

Second Year B.Pharm Degree Supplementary Examinations January 2023

Pharmaceutical Chemistry III (Advanced 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
- Draw table/diagrams/flow charts wherever necessary

Essays (3x10=30)

- 1. Define and classify Heterocyclic compounds with suitable examples. Add a note on Fisher Indole synthesis.
- 2. What is racemic modification. Discuss the methods of resolution of racemic modification with examples.
- 3. Write the synthesis and reactions of Isoquinoline and Imidazole.

Short notes (14x5=70)

- 4. Explain the elements of symmetry.
- 5. What are geometric isomers and explain E and Z nomenclature.
- 6. Explain Birch reduction reaction with mechanism.
- 7. Write any three methods of preparation of Naphthalene.
- 8. Distinguish between the configuration and conformation with example.
- 9. Explain the stereochemistry of cyclic compounds.
- 10. Write the mechanism and applications of metal hydride reduction by NaBH4.
- 11. Write the synthesis and reactions of Pyridine.
- 12. Explain the nomenclature of Polynuclear aromatic hydrocarbons.
- 13. Addition reactions.
- 14. Schmidt Rearrangement.
- 15. Explain the structure, resonance and reactivity of anthracene.
- 16. Write the structure and medicinal derivatives of Pyrrole.
- 17. Walden inversion with example.
