2012 Scheme

QP CODE: 211006

Second Year B.Pharm Degree Supplementary Examinations February 2024

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

Essays

- 1. Define racemic mixture, racemization and resolution. Add a note on asymmetric synthesis with example.
- 2. What are E_1 and E_2 reactions. Explain the mechanism, reactivity, orientation and stereochemistry of E_1 and E_2 reactions.
- 3. Enumerate any two methods of synthesis of Furan and electrophilic substitution reactions with suitable example. Compare its aromaticity with Thiophene.

Short notes

- 4. Stereochemistry of oximes.
- 5. Illustrate R and S Configuration with examples.
- 6. Define chirality, enantiomers and diastereomers with examples.
- 7. Explain conformational analysis and stereo mutation.
- 8. Explain the modern theory of double bonds.
- 9. Skraup Synthesis.
- 10. Write any two medicinal derivatives of Indole and Pyrimidine.
- 11. Explain any two methods of synthesis and reactions of Pyridine.
- 12. Distinguish between oxazole and isoxazole.
- 13. Explain the structure and aromatic character of anthracene.
- 14. Outline any three methods of preparation for Phenanthrene.
- 15. Explain, oxidation, reduction and electrophilic substitution reactions of naphthalene.
- 16. Clemmenson's reduction with its significance.
- 17. Explain Mannich reaction with example.

Total Marks: 100

Reg. No:

(14x5=70)

(3x10=30)