2010 Scheme

QP CODE: 201006 Reg. No:

Second Year B.Pharm Degree Supplementary Examinations December 2019 Pharmaceutical Chemistry III

(Advanced Organic Chemistry)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay (3x10=30)

- 1. Define optical isomerism. Explain elements of symmetry in molecules with examples.
- 2. Explain any two methods of synthesis of furan and write any three reactions of furan.
- 3. What are polynuclear hydrocarbons. Outline the synthesis and chemical reactions of naphthalene.

Short notes (14x5=70)

- 4. Explain the basicity of pyrrole.
- 5. Hoffmann rearrangement.
- 6. Explain E-Z system of naming geometrical isomers.
- 7. Explain the mechanism of Schmidt rearrangement.
- 8. Write any two methods of preparations of imidazole.
- 9. Explain metal hydride reduction.
- 10. Write any three reactions of thiophene.
- 11. Explain the term stereospecific synthesis with examples.
- 12. Write one method of preparation each for phenothiazine and acridine.
- 13. Explain the electrophilic substitution reaction of phenanthrene.
- 14. Outline the synthesis of indole by Fisher indole synthesis.
- 15. Explain the Clemmenson's reduction with mechanism.
- 16. Explain asymmetric synthesis with suitable examples.
- 17. Explain the Stereochemistry of oximes.
