

2010 Scheme

QP CODE: 201006

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*

Essay

(3x10=30)

1. Discuss the important methods of preparation and chemical reactions of Pyrimidine
2. Explain the nomenclature, structure, resonance structures and aromatic character of Naphthalene
3. Explain the following rearrangement with mechanisms
 - Hoffmann rearrangement
 - Curtius rearrangement

Short notes

(14x5=70)

4. Describe Lexicon of elements of symmetry
5. What is asymmetric synthesis. Explain it
6. Explain the stereochemistry of amines
7. Explain the mechanism and application of Clemmenson's reduction
8. Explain the Michael addition including its mechanism
9. Outline the preparation and reactions of Phenothiazines
10. Outline the important reactions of Furan
11. Explain any five methods of resolution of racemic mixture
12. Explain the oxidation reactions with lead tetra acetate with its mechanism
13. Explain the nature and nomenclature of oxepines
14. Describe briefly the electron density and reactivity of naphthacene
15. Explain the electrophilic substitution reactions of anthracene
16. Outline the important reactions of Indole
17. Explain the basicity of pyrrole and pyridine.
