

2010 Scheme

QP CODE: 201006

Reg. No:

Second Year B.Pharm Degree Supplementary Examinations February 2022

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 quinoline
2. Explain the nomenclature, structures, resonance structures and aromatic character of Phenanthrene
3. Explain the following rearrangement with mechanisms
 - Beckmann rearrangement
 - Schmidt rearrangement

Short notes

(14x5=70)

4. Explain the conventions used in stereochemistry
5. Elaborate on stereo specific and stereo selective synthesis
6. How will you determine the configuration of isomers
7. Explain the stereochemistry of oximes
8. Describe the oxidation reactions with perchloric acid
9. Outline the preparation and reactions of acridine
10. Explain the resonance structures, electron density and reactivity of naphthacene
11. Explain the catalytic hydrogenation with examples
12. Explain Walden inversion
13. Outline the method of synthesis of imidazole
14. Write a note on rotation about carbon carbon double bond
15. Explain modern theory of double bonds
16. Explain the stereochemistry of biphenyl compounds
17. What are reduction reactions. Explain with examples
