

2012 Scheme

QP CODE: 211006

Reg. No:

Second Year B.Pharm Degree Supplementary Examinations September 2021

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. Elaborate the methods in resolution of racemic modification with suitable examples.
2. Enumerate the various rearrangements in name reactions. Give a note on Beckmann and Curtius rearrangement.
3. Discuss the structure, aromaticity and chemical reactions of naphthalene.

Short notes

(14x5=70)

4. Classify isomerism with examples.
5. List and write the conventions in stereochemistry.
6. Distinguish between absolute and relative configuration.
7. Modern theory of double bonds.
8. Discuss the preparation and reactions of any two 5 membered rings having two nitrogens.
9. Write down the chemical reactions of quinoline and isoquinoline.
10. What are fused heterocyclic ring moieties. Add a note on acridine.
11. Explain the nature, structure and nomenclature of azepine and diazepine.
12. Prepare systematically pyrrole and indole.
13. How is reduction with hydrazine carried out
14. The mechanism and uses of Mannich reaction.
15. How is oxidation with per chloric acid carried out
16. Explain the structure, resonance and reactivity of anthracene.
17. The electrophilic substitution reactions of naphthacene
