

2012 Scheme

QP CODE: 211006

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

Essays

(3x10=30)

1. Enumerate any five methods of resolution of racemates.
2. Explain SN_1 and SN_2 reactions.
3. Describe any two methods for the preparation of furan and pyridine. Give any two important chemical reactions for each.

Short notes

(14x5=70)

4. Explain the mechanism of Darzen's reaction.
5. Hoffman rearrangement and its significance.
6. Explain Beckmann's rearrangement with its mechanism with its uses.
7. Write the synthesis and reactions of quinoline.
8. Give the method of preparation and important reactions of Pyrimidine
9. Classify heterocyclic compounds with examples.
10. Give the synthesis and reactions for thiophene.
11. Compare the aromaticity of Phenanthrene and anthracene.
12. Explain the resonance structure and electrophilic substitution reactions of naphthacene.
13. Stereochemistry of biphenyl compounds.
14. Explain in detail about sequence rules.
15. What are stereo selective and stereo specific reactions with suitable examples.
16. With suitable examples, explain the various methods of nomenclature of geometric isomers giving a reason for the same.
17. Fischer Indole synthesis.
