

2012 Scheme

QP CODE: 211006

Reg. No:

Second Year B.Pharm Degree Supplementary Examinations July 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. Describe stereospecific and stereo selective synthesis.
2. Write the definition, reaction, mechanism and applications of Beckmann rearrangement and Clemmensen's reduction.
3. Define and classify heterocyclic compounds. Explain its nomenclature. Explain the method of preparation of acridine.

Short notes

(14x5=70)

4. Define plane of symmetry. Explain with example.
5. Explain the stereochemistry of SN_1 reaction.
6. Explain the resonance structures and reactivity of anthracene.
7. Explain the reactions of pyridine.
8. Explain the preparations of furan.
9. Reduction reactions of naphthalene.
10. Explain the method of preparation quinolone.
11. Explain the oxidation reactions involving selenium oxide.
12. Explain the mechanism of Michael addition reaction and Mannich reactions.
13. Explain the general reaction of Meerwin-Ponndorf reduction and explain the mechanism.
14. Explain Darzens reaction. Explain its applications.
15. Explain the structure and nomenclature of thiophene, oxepine, pyrazine and phenothiazine.
16. Write the stereo chemistry of oximes.
17. Explain reduction with hydrazine.
