

2010 Scheme

QP CODE: 201006

Reg. No:

Second Year B.Pharm Degree Supplementary Examinations

February 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*

Essay

(3x10=30)

1. Outline any three methods of synthesis and any three important chemical reactions of pyrrole.
2. Explain racemic modification. Explain any four methods for the resolution of racemic mixture.
3. Outline the synthesis and chemical reactions of naphthalene.

Short notes

(14x5=70)

4. Explain the Walden inversion and stereo-mutation.
5. Schmidt rearrangement.
6. Explain any two methods of synthesis and two reactions of oxazole.
7. Explain the mechanism of curtius rearrangement.
8. Explain any two methods of preparations of pyrazole.
9. Meerwin-Pondroff reduction.
10. Explain any three reactions of indole.
11. Explain the term stereoselective synthesis with examples.
12. Explain any two method of preparation of quinoline.
13. Explain the electrophilic substitution reaction of anthracene.
14. Explain the Darzen's reaction with mechanism.
15. Oxidation reactions of phenanthrene and anthracene.
16. Explain the stereochemistry of amines.
17. Explain geometrical isomerism.
