

2012 Scheme

QP CODE: 112006

Reg. No:

First Year B. Pharm Degree Supplementary Examinations December 2024

Pharmaceutical Chemistry - II

(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
- Write equations wherever necessary.

Essay

(3x10=30)

1. Explain the kinetics, rearrangement of carbonium ions in elimination unimolecular reaction of alkyl halides. Add a note on reactivity and orientations.
2. Explain the acidity of carboxylic acids. Add a note on stability of carboxylate anion.
3. Explain Hoffmann's degradation of amides and Cannizzaro reaction with suitable examples.

Short notes

(14x5=70)

4. Describe the mechanism of dehydration of alcohol.
5. Explain in detail about Baeyer's Strain theory of cycloalkanes.
6. Compare and comment aliphatic nucleophilic substitution with aromatic nucleophilic substitution.
7. Outline the Reformatsky reaction.
8. Explain in detail about free radical substitution reactions of alkanes.
9. Describe the mechanism of action of crossed aldol condensation with example.
10. Write a note on basicity of amines.
11. Explain the diazotization reaction and reactions of diazonium salts with example.
12. Briefly explain electromeric and mesomeric effects with suitable examples.
13. Give any five methods of preparation of alcohols.
14. Explain peroxide effect with example.
15. Outline the Kolbe-Schmidt reaction.
16. Write a note on acidity of phenols.
17. Define isomerism. Classify with examples.
