

2012 Scheme

QP CODE: 112006

Reg. No:

First Year B. Pharm Degree Supplementary Examinations December 2025

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 electrophilic addition reactions of alkenes. What is Markovnikov's Rule. Explain it with suitable example.
2. Give an account on Kekulé's structure of benzene and Huckel's Rule. Also explain the reactivity and orientation in monosubstituted benzenes.
3. Explain the basicity of amines. Give an account on diazotization and any three important reactions of diazonium salts.

Short notes

(14x5=70)

4. Briefly explain inductive effect and mesomeric effect with suitable examples.
5. Explain cis-trans and conformational isomerism with suitable examples.
6. Explain the mechanism and kinetics of E_1 reaction with the help of an example.
7. Outline mechanism and applications of Perkin condensation.
8. Explain stability and 1,4 addition reactions of conjugated dienes.
9. Describe the effects of substituents on acidity of carboxylic acids.
10. Write a note on Cannizzaro and crossed Cannizzaro reaction.
11. Give an account on Saytzeff's rule with suitable example.
12. Briefly explain the stereospecific reduction of alkynes.
13. Give any five methods of preparation of phenols.
14. Explain Williamson's synthesis with example. Add a note on the reaction of hydroiodic acid on ethers.
15. Outline the Hoffmann's degradation of amines.
16. Write a note on acidity of phenols.
17. Explain the Fries rearrangement.
