

2010 Scheme

QP CODE: 102006

Reg. No:

First Year B. Pharm Degree Supplementary Examinations August 2022 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. a) State and explain Bayers Strain theory and Saches-Mohr theory
b) Give a note on limitations of Bayers Strain theory.
2. Describe the synthesis of malonic esters and pharmaceutical importance of malonic esters.
3. a) Explain about E₁ elimination reactions with a note on Saytzeff's rule.
b) Give a note on acidity of carboxylic acid and Stability of carboxylate anion

Short notes

(14x5=70)

4. Explain about geometrical isomerism with examples.
5. Outline the reactivity of primary, secondary and tertiary alcohols
6. Explain the aromaticity of benzene according to Huckel's rule.
7. Walden inversion
8. What is Perkins reaction. Outline the reaction mechanism.
9. Describe Williamson's ether synthesis
10. Explain the diazotization reaction with reaction mechanism.
11. Why phenols are acidic in nature. Explain with example
12. Explain Hinsberg Test.
13. Outline the reduction reactions of esters and amides
14. Explain the reactivity of halobenzenes
15. Define the terms bond length, bond angle and bond dissociation energy
16. State and explain Markownikov's addition reaction.
17. Give a note on 1,4-addition reactions of conjugated alkadienes
