

2010 Scheme

QP CODE: 102006

Reg. No:

First Year B. Pharm Degree Supplementary Examinations June 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 Fries rearrangement and Oppenauer oxidation with mechanism.
2. Explain Hoffmann's degradation of amides and add a note on reduction of esters.
3. a) Discuss the concept of heat of combustion and hydrogenation.
b) Walden inversion with mechanism.

Short notes

(14x5=70)

4. Explain the concept of bond lengths, bond angles and bond dissociation energy.
5. Explain the acidity of 1-alkynes.
6. Explain Kharasch effect with an example.
7. Discuss the nomenclature of benzene derivatives.
8. Write any two general methods of preparation of aliphatic compounds.
9. Discuss the nucleophilic substitution reactions of alcohols.
10. Explain the stability of phenoxide ion.
11. Discuss Hinsberg method in amines.
12. Explain the chemical reactions of aromatic nitro compound.
13. Explain the relative reactivities of 1^o, 2^o and 3^o alcohols.
14. State and explain Aldol condensation.
15. Explain ring stabilities of cyclohexane.
16. Explain Huckel's rule.
17. Write a note on conversion of acids to acid derivatives.
