

# **2010 Scheme**

**QP CODE: 102006**

**Reg. No: .....**

**First Year B.Pharm Degree Supplementary Examinations  
September 2021  
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. Describe the inductive and electrometric effects of organic molecules.
2. Explain a conjugated alkadiene. Write down its stability and 1, 4 addition reactions.
3. Illustrate on aliphatic nucleophilic substitution reactions in alkyl halide.

**Short notes**

**(14x5=70)**

4. The basicity of amines.
5. Give the structures of malonic and acetoacetic esters giving emphasis to their importance in synthesis.
6. Explain the nomenclature of carboxylic acids. Write any two method of preparation of aliphatic carboxylic acid.
7. Mention the general equations for Perkin's and Cannizaro's reaction.
8. Discuss on the methods of preparation of phenols. Why are they acidic
9. Explain the mechanism of Fries rearrangement.
10. Explain relative reactivities of primary,secondary, and tertiary alcohol.
11. Discuss Saytzeff's rule with suitable examples.
12. State reasons for the low reactivity of halobenzenes towards nucleophilic substitution.
13. Describe the term aromaticity and give a note on Huckel's rule.
14. Distinguish between resonance and hyper conjugation with examples.
15. Explain on the chair-boat conformation.
16. Explain the halogenation of alkanes.
17. Hoffmann's degradation of amides.

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