

**I B.Pharmacy I Semester Supplementary Examinations, Feb/Mar 2014
PHARM ORGANIC CHEMISTRY -I**

Time: 3 hours

Max Marks: 75

**Answer any FIVE Questions
All Questions carry equal marks**

- Classify different types of organic reagents. Explain in brief Electrophilic reagents with examples. How do they attack the substrate?
 - What are nucleophilic reagents? Classify with examples. How nucleophiles attack the substrate? [8+7]
- Explain relative stabilities, heat of combustion and hydrogenation.
 - What are cycloalkanes? Discuss Bayer's strain theory to explain the stability of cycloalkanes. [8+7]
- Write a note on Kharasch effect.
 - Explain Bayer's oxidation of alkenes.
 - Discuss the polymerization of alkenes with example. [5+5+5]
- Explain the statement "Benzene undergoes Electrophilic Aromatic Substitution Reactions"
 - Write short notes on Activating and Deactivating Groups in Electrophilic Aromatic Substitution Reactions of Substituted Benzene [8+7]
- What are Aromatic compounds? Explain the Structure of Benzene
 - Write short notes on (i) Huckel's Rule (ii) Stability of Benzene [5+10]
- Write reaction mechanism, kinetics, energetics, stereochemistry and factors influencing SN^2 Mechanism? Add a note on Walden Inversion? [15]
- Write Haworth synthesis of Naphthalene and describe Reaction Mechanism involved in it?
 - What happens when Anthracene is subjected for Reduction with
 - Sodium metal in Ethanol
 - Hydrogen in presence of Nickel catalyst[8+7]
- What are Aryl halides and give examples? Explain why Aryl halides are less reactive than Alkyl halides towards Nucleophilic Substitution Reactions?
 - Describe any Three important Methods of Preparation of Aryl halides with suitable Examples? [8+7]

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