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**B. PHARM**  
**(SEM II) THEORY EXAMINATION 2022-23**  
**PHARMACEUTICAL ORGANIC CHEMISTRY-I**

Time: 3 Hours

Total Marks: 75

Note: Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A** <https://pharmacyindia.co.in/>

**1. Attempt all questions in brief. 10 x 2 = 20**

- What is Electromeric effect? Give examples
- Explain the term "Inductive effect" with suitable example.
- What is Walden inversion?
- What is Ozonolysis?
- Write about Diel-Alder reaction.
- Give reaction for Friedel Crafts reaction.
- What is Saytzeff's orientation?
- Rosenmund Reduction is used for?
- Give structure of 3-chloro 2-hydroxy hexanoic acid.
- Write IUPAC name of  $\text{CH}_3\text{OCH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CHO}$

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**SECTION B**

**2. Attempt any twoparts of the following: 2 x 10 = 20**

- Explain kinetics, order of reactivity of alkyl halides, stereochemistry and rearrangement of carbocations regarding SN1 and SN2 reactions.
- Elaborate Basicity, effect of substituent on Basicity of Aliphatic amines with suitable examples.
- In E1 and E2 reactions –Discuss Kinetics, order of reactivity of alkyl halides and rearrangement of carbocations. Elaborate Factors affecting E1 and E2 reactions.

**SECTION C**

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**3. Attempt any fiveparts of the following: 7 x 5 = 35**

- Describe in detail aldol condensation and Crossed Aldol condensation.
- Explain Structural isomerism in organic compounds.
- Give detailed account of free radical addition reactions of alkenes and Anti-Markownikoff's orientation.
- Give Reactions of Aldehydes and Ketones? What are Nucleophilic addition reactions of Carbonyl compounds and How they differ in acids and Bases?
- Discuss Qualitative tests of Alcohols. Give Structure and uses of Cetosteryl alcohol and Iodoform.
- Give preparations and Reactions of Alkyl Halides.
- Write short note on Structure and Uses of Acetic acid, Citric acid, Acetyl salicylic acid, Amphetamine and Acetone.

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