Printed Pages:01 **Sub Code: BP202T**

Paper Id: 238184 **Roll No.** | | | | | | | | | | |

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

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

(a) What is Electromeric effect? Give examples
(b) Explain the term "Inductive effect"with suitable example.
(c) What is Walden inversion?
(d) What is Ozonolysis?
(e) Write about Diel-Alder reaction.
(f) Give reaction for Friedel Crafts reaction.
(g) What is Saytzeff's orientation?
(h) Rosenmund Reduction is used for?
(i) Give structure of 3-chloro 2-hydroxy hexanoic acid.
(j) Write IUPAC name of $CH_3OCH_2CH_2\ CH_2\ CH_2CHO$

SECTION B

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

(a) Explain kinetics, order of reactivity of alkyl halides, stereochemistryand rearrangement of carbocations regarding SN1 and SN2 reactions.
(b) Elaborate Basicity, effect of substituent on Basicity of Aliphatic amines with suitable examples.
(c) 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

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

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

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