



Paper id: 252651

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Subject Code: BP202T

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BPHARM
(SEM II) THEORY EXAMINATION 2024-25
PHARMACEUTICAL ORGANIC CHEMISTRY I

TIME: 3 HRS**M.MARKS: 75**

Note: 1. 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 Crossed Aldol Condensation?
b.	What is Benzoin condensation?
c.	What is the Crossed Cannizaro reaction?
d.	What is Aldol condensation?
e.	Write a note on factors affecting SN1 and SN2 reactions.
f.	Write a note on the acidity of carboxylic acids.
g.	Define hybridization.
h.	What is the structure and use of Chloroform?
i.	What is the structure and use of Amphetamine?
j.	What is the use of methyl Salicylate?

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

a.	Write the IUPAC names for the following compounds. (i) $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$ (ii) CH_3COCH_3 (iii) $\text{CH}_3\text{CH}_2\text{COOH}$ (iv) $\text{CH}_3\text{CH}(\text{Cl})\text{CH}_2\text{CH}_3$
b.	Explain the difference between structural isomerism and stereoisomerism. Provide an example for each.
c.	What are the differences between E1 and E2 reactions, and explain in detail.

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

a.	Describe the mechanism, kinetics, and stereochemistry of the SN2 reaction.
b.	Explain the mechanism of free radical addition reactions of alkenes, providing examples.
c.	Classify alcohols. Explain the nomenclature and method of preparation of alcohols.
d.	Discuss various qualitative tests to distinguish aldehydes and ketones with reactions.
e.	Explain Anti-Markownikoff's orientation mechanism with an example.
f.	Explain ozonolysis.
g.	How will you distinguish primary, secondary, and tertiary amines?