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Subject Code:BP202T

Roll No:

BPHARM

(SEM II) THEORY EXAMINATION 2025-26
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 Electromeric effect?
b.	What is Satyzeff's rule?
c.	Define hyperconjugation.
d.	What is esterification?
e.	Write qualitative test for alcohol.
f.	What is ozonolysis.
g.	Define basicity of amines.
h.	Write two uses of chloroform.
i.	What is Markovnikov's rule?
j.	Write structure and uses of acetone.

SECTION B

2. Attempt any *two* parts of the following:

2 x 10 = 20

a.	Explain SN1 and SN2 reactions with kinetics, stereochemistry and factors affecting them.
b.	Discuss E1 and E2 elimination reaction and rearrangement of carbocations.
c.	Elaborate basicity, effect of substituent on basicity of aliphatic amines with suitable example.

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.	Describe free radical addition reaction of alkenes and Anti-Markonikov rule.
c.	Explain structural isomerism with example.
d.	Discuss nucleophilic addition reaction of aldehydes and ketones
e.	Give preparation and reaction of Alkyl halides.
f.	Write a short note on structure and uses of Acetic acid, Citric acid, Acetyl salicylic acid, Amphetamine and Acetone.
g.	Describe in detail Cannizzaro reaction and Crossed Cannizzaro reaction