



PAPER ID-411258

Subject Code: BP202T

Roll No:

**BPHARMA**  
**(SEM II) THEORY EXAMINATION 2023-24**  
**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**

10 x 2 = 20

1. Attempt all questions in brief.

a.	What is chain isomerism?
b.	What are electrophiles and nucleophiles?
c.	What is Markownikoff's rule?
d.	Write the structure of aldol and benzoin.
e.	What is ozonolysis?
f.	Give identification test of amines.
g.	What is Diels-Alder's reaction?
h.	What is the order of reactivity of 1°, 2°, and 3° alkyl halides?
i.	What do you understand by Hoffman's rule?
j.	Differentiate between E1 and E2 reactions.

**SECTION B**

2 x 10 = 20

2. Attempt any two parts of the following:

a.	Define the Nomenclature of organic compounds with examples.
b.	What are SN1 and SN2 reactions? Discuss the kinetics, mechanism, and factors affecting the SN1 and SN2 reactions.
c.	Give detailed notes on the Cannizzaro reaction and Aldol condensation.

**SECTION C**

7 x 5 = 35

3. Attempt any five parts of the following:

a.	Define the Nomenclature of organic compounds with examples.
b.	Discuss 1,2 and 1,4 additions in conjugated dienes.
c.	Write about the basicity of aliphatic amines and the factors affecting it.
d.	Write down qualitative tests for carboxylic acids and alcohols.
e.	Write the structure and uses of chloroform and trichloroethylene.
f.	Discuss about preparation, chemical reactions, and uses of monocarboxylic acids.
g.	Discuss in detail about nucleophilic addition reactions in carbonyl compounds.