Printed Pages: 1 Paper 1d: - 233673

Roll No.

# BPHARM(SEM II) THEORY EXAMINATION 2022-2023 PHARMACEUTICAL ORGANIC CHEMISTRY-I

Total Marks: 75

2.

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

### SECTION A

I. Attempt all questions in brief.  $10 \times 2 = 20$ 

- Give structure of the following compounds :-43 i) Acetic acid ii) Lactic acid iii) Salicylic acid iv) Succinic acid
- Enlist qualitative tests for Alcohol.
- What is Aldol condensation?
- Explain Acidity of Carboxylic acids and Basicity of Aliphatic Amines. đ.
- What are SN<sub>1</sub> and SN<sub>2</sub> reactions? Give examples. e.
- Explain SP3 hybridization in Alkanes. f.
- What is structural isomerism in organic compounds? Give examples. g.
- h. What are Alkyl Halides?
- Explain in brief Nucleophilic addition, (
- What is Diel-Alder reaction? j.

Attempt any two parts of the following:

Explain factors affecting SN1 and SN2 reactions in detail. a.

What are E1 and E2 reactions? Give Markownikoff's orientation. **b**.

What is Inductive effect? Give qualitative tests for Carboxylic acid, Amides and C. Ester.

## SECTION C

### Attempt any fiv eparts of the following: 3.

7 x 5 = 35

- Discuss three methods of preparation of Amines. a.
- Explain Saytzeff's rule with suitable examples. b.
- differentiate between primary secondary and tertiary Give chemical tests to Alcohols.
- Write a note on Cannizzaro reaction.
- Write IUPAC nomenclature rules for the naming of carboxylic acids. e.
- Explain Ozonolysis and electrophilic addition reaction of Alkenes. f.
- What is IUPAC system of nomenclature of organic compounds? g.

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