



Paper id: 253107

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Subject Code: BP202T

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(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.

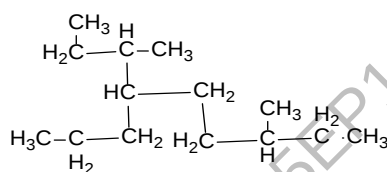
SECTION A

1. Attempt *all* questions in brief.

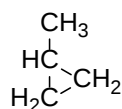
10 x 2 = 20

- What is chain isomerism?
- What is the silver mirror test?
- What is the peroxide effect?
- Outline the Diels-Alder reaction of conjugate dienes.
- Explain why formic acid is stronger than acetic acid?
- What do you mean by the Wurtz reaction?
- What do you understand by Saytzeff's rule?
- Write down the structure and uses of iodoform and chloroform.
- What is the order of reactivity of 1°, 2°, and 3° alkyl halides?
- Write the IUPAC name of the following:

I.



II.



SECTION B

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

2 x 10 = 20

- Write the general rules for IUPAC nomenclature of organic compounds with examples.
- Differentiate in between E¹ and E² reactions. Discuss the mechanism and factors affecting the E¹ and E² reactions.
- Demonstrate various methods of synthesis and chemical reactions given by aliphatic amines.

SECTION C

3. Attempt any *five* parts of the following:

7 x 5 = 35

- Discuss the mechanism and factors affecting SN₁ and SN₂ reactions.
- Write down the preparation and chemical reactions of alkyl halides.
- Write down the reaction and mechanism of the aldol and crossed aldol condensation.
- Explain the stability and effect of a substituent on the acidity of carboxylic acids.
- Discuss in detail about nucleophilic addition reactions of carbonyl compounds.
- Discuss preparation, chemical reactions, and uses of monocarboxylic acids.
- Discuss the methods for distinguishing between aldehydes and ketones.