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B PHARM (SEM-II) THEORY EXAMINATION 2018-19 PHARMACEUTICAL ORGANIC CHEMISTRY-I

Time: 3 Hours Total Marks: 75

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

SECTION A

1. Attempt all questions in brief.

 $10 \times 2 = 20$

- a. Give IUPAC name for $(CH_3)_2C=CHC (C_2H_5)=CH_2$.
- b Give the structure and uses of Hexamine.
- c. Give the structure and uses of Tartaric acid.
- d. Why chloroacetic acid is more acidic than acetic acid?
- Write the structure and uses of Methyl Salicylate.
- f. Why aliphatic amines are more basic than aromatic amines?
- g. Give the structure and uses of Amphetamine.
- h What is Saytzeff's rule?
- i. What is the effect of base in E2 reaction?
- j. What is ozonolysis of alkene?

SECTION B

2. Attempt any two parts of the following:

 $2 \times 10 = 20$

- What is isomerism? Explain structural isomerism with suitable examples.
- Write reaction and mechanism of Aldol condensation and Benzoin condensation.
- c. What are dienes? Explain 1, 2 and 1,4 addition mechanism in conjugated dienes with suitable examples

SECTION C

3. Attempt any five parts of the following:

 $7 \times 5 = 35$

- Write a note on Markownikoff's orientation.
- b. Write IUPAC nomenclature rules for the naming of carboxylic acids.

Write a detailed account of SN1 and SN2 reactions.

- d. Give the chemical tests for alcohols. Give the structure and uses of glycerol.
- e Write a note on Cannizzaro reaction.
- f. Write chemical tests for amines. Give the structure and uses of ethanolamine.
- g. Write a note on: i) Perkin condensation reaction ii) Inductive effect