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Third Semester Examination For the Degree of Bachelor of Pharmacy

PHARMACEUTICAL CHEMISTRY (ORGANIC) \equiv

3-T-2

Time: Three Hours]

[Max. Marks : 80

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- (1) Question No.1 is Compulsory.(2) Solve any Four questions from the remaining.
- (3) Discuss the reaction, mechanism wherever necessary.
- 1 Solve any **Five** of the following :—
- (a) Write a note on Keto-enol tautomerism
- (b) Explain Huckel's Rule
- <u>O</u> Differentiate between SN1 and SN2
- (d) Aldehydes are more reactive than Ketone, Explain.
- <u>e</u> Explain Confirmations of n-butane
- \oplus Write the mechanism of Hofmann degradation reaction.
- 9 State and explain any two reactions of phenol. $5 \times 4 = 20$
- 2 Discuss the electrophilic aromatic substitution reaction of benzene with :—
- (a) Nitration
- (b) Sulphonation

<u>O</u> Halogenation

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- (d) Friedel-Craft's alkylation
- (e) Friedel-Craft's acylation

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- $\dot{\omega}$ Give the detail account of SN2 including reaction, mechanism, orientation and reactivity.
- 4. of Carboxylic acids. Write a Concise account on reactions and preparations
- S stereochemistry with appropriate examples. reaction covering mechanism, evidences, orientation and Prepare a full length draft on biomolecular elimination
- (a) Describe in detail on preparation of alkenes using suitable examples.
- (b) Discuss about acidity of Carboxylic acids.
- 7. Write notes on (Any **Three**) :—
- (a) Aldol condensation.
- (b) Connizarro's Reaction
- (c) Structure of benzene
- (d) Hinsberg test
- Synthesis and applications of Organometallic Compounds.

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