COURSE-VI BSCCH 202 ORGANIC CHEMISTRY- II

Block 1 Derivatives of Hydrocarbons-I

Unit -1 Alcohols

Unit -2 Phenols

4.2 Introduction

4.3 Nomenclature and structure of the carbonyl group

4.4 Synthesis of aldehydes with particular reference

4.5 Synthesis of aldehyde from acid chloride

4.6 Synthesis of aldehyde using 1, 3-dithianes

4.7 Physical properties.

4.8 Mechanism of nucleophilic addition to carbonyl group with particular emphasis on-

4.9 Benzoin, aldol, perkin and Knoevenagel condensation

4.9.1 Condensation with ammonia and its derivatives.

4.9.2 Witting reaction

4.9.3 Mannich reaction

4.9.4 Oxidation of aldehydes

4.9.5 Baeyer- Cannizzaro reaction

4.9.6 MPV reaction

4.9.7 Clemmensen reaction

4.10 Summary

4.11 Terminal Question

4.12 Answers

Unit -5 Ketons

5.1 Objectives

5.2 Introduction

5.3 Nomenclature and structure of ketones

5.4 Synthesis of ketones

5.5 Synthesis of ketone from nitriles and carboxylic acid

5.6 Physical properties

5.7 Chemical reactions of ketone

5.7.1 Villiger oxidation of ketone

5.7.2 Wolff-Kishner reaction

5.7.3 Halogenation of enolizable ketone

5.8 Summary

5.9 Terminal Question

Block 3

Unit -8 Organic Compounds of Nitrogen (Nitro compounds)

Unit 9 Amino Compounds

Unit -10 Organosulphur and Organo Phosphorus Compounds