

TDL Govt. College for Women Murthal, Sonipat

Academic Session 2020-21		Semester: Odd
Name of Assistant Prof.: Dr. Vinod Khatri		
Class: B.Sc. Non-Medical (III Semester)		
Name of Subject: Organic Chemistry (CHE 201 C)		
12th Jan. 2021 to 27th Mar. 2021		
12 Jan – 23 Jan	Ultraviolet (UV) absorption spectroscopy Absorption laws (Beer-Lambert law), molar absorptivity, presentation and analysis of UV spectra, types of electronic transitions, effect of conjugation. Concept of chromophore and auxochrome.	
24 Jan	SUNDAY	
25 Jan – 06 Feb	Ultraviolet (UV) absorption spectroscopy Bathochromic, hypsochromic, hyperchromic and hypochromic shifts. UV spectra of conjugated enes and enones, Woodward- Fieser rules, calculation of max of simple conjugated dienes and, -unsaturated ketones. Applications of UV Spectroscopy in structure elucidation of simple organic compounds.	
07 Feb	SUNDAY	
08 Feb – 20 Feb	Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Reactions of carboxylic acids. Assignment and Test	
21 Feb	SUNDAY	
22 Feb – 06 Mar	Carboxylic Acids & Acid Derivatives Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids. Mechanism of decarboxylation. Structure, nomenclature and preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives.	
07 March	SUNDAY	
08 Mar-13 Mar	Carboxylic Acids & Acid Derivatives Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).	
15 March onwards	Revision	