## UNIT 12 ALDEHYDES KETONES AND CARBOXYLIC ACIDS

1)	What are aldehydes ?	
	1	
	Aldehydes are the organic compounds containing carbonyl group, linked with one hydrogen and one all	kyl
2)	/aryl group. What are carboxylic acids?	1
	Carboxylic acids are the organic compounds containing carboxyl(-COOH) group/s	T
3)	Between aldehyde and ketones which one is confirmed using Tollen's reagent.	
		1
	Aldehyde.	
4)	Patwaan aldahuda and katanas which and is confirmed using Fahling's solution	1
4)	Between aldehyde and ketones which one is confirmed using Fehling's solution Aldehyde.	T
	Aldenyde.	
5)	Write the IUPAC name of the compound.CHO-CH <sub>2</sub> -CH(CHO)-CH <sub>2</sub> -CHO.	1
- /		
	Propane-1,2,3-tricarbaldehyde.	
6)	The boiling point of aldehydes and ketones are higher than hydrocarbons and ethers of	
	comparable molecular mass. Why.	1
	Because in aldehydes and ketones there is a weak molecular association arising out of dipole-	
	dipole interaction.	
7)	Arrange the following compounds in the increasing order of their acidic strength. HCOOH,	
	CH <sub>3</sub> COOH, CH <sub>3</sub> CH <sub>2</sub> COOH.	1
	$CH_3CH_2COOH < CH_3COOH < HCOOH.$	
0)	Arrange the following compounds in the decreasing order of their acidic strength. HCO	<u>оп</u>
0)	CH <sub>3</sub> COOH, $C_6H_5$ COOH.	υп,
	$HCOOH> C_6H_5COOH> CH_3COOH.$	
9)	Arrange the following compounds in the increasing order of their acidic strength. CI-CH <sub>2</sub> COOH,	Br-
-,	CH <sub>2</sub> COOH ,F-CH <sub>2</sub> COOH	1
	Br-CH <sub>2</sub> COOH <cl-ch<sub>2COOH<f-ch<sub>2COOH .</f-ch<sub></cl-ch<sub>	
10)	) Name the reagent used in the Stephen reaction.	1
	Stannous chloride in presence of HCI.	
11)		2
0	The carbon-oxygen double bond is polarised due to higher	
й	electronegativity of oxygen relative to carbon. Hence, the carbony carbon is an electrrophilic and carbonyl oxygen is a nucleophilic	l
	carbon is an electrophilic and carbony oxygen is a nucleophilic	
12)	Identify the product and name of the reaction.	2
Í	$\sim$ Cl $\xrightarrow{H_2}$ CHO	
	Pd - BaSO <sub>4</sub> chloride Benzaldehyde	
Benzoyl Benza	Idehyde Rosenmunds reduction	
DCI120	noscrimulus reduction	











