

ECAT Chemistry Chapter 23 Aldehydes and Ketones Online Test

Sr	Questions	Answers Choice
1	The IUPAC name for $\text{CH}_3\text{COCH}(\text{CH}_3)_2$ is	A. 4-Methylisopropyl ketone B. 3-Methyl-2-butanone C. Isopropylmethyl ketone D. 2-Methyl-2-butanone
2	Which is not true about acetophenone?	A. Reacts to form 2,4-dinitrophenyl hydrazine B. Reacts with Tollen's reagent to form silver mirror C. Reacts with I_2/NaOH to form iodoform D. On oxidation with alkaline KMnO_4 followed by hydrolysis gives benzoic acid
3	An organic compound 'A' has the molecular formula $\text{C}_3\text{H}_6\text{O}$, it undergoes iodoform test. When saturated with HCl it gives 'B' of molecular formula $\text{C}_9\text{H}_{14}\text{O}$. A and B, respectively are	A. Propanal and mesitylene B. Propanone and mesityl oxide C. Propanone and 2,6-dimethyl-2,5-heptadien-4-one D. Propanone and mesitylene oxide
4	Which of the following reagents is used to distinguish acetone and acetophenone	A. NaHSO_3 B. Grignard reagent C. Na_2SO_4 D. NH_4Cl
5	Which of the following react with NaOH to produce an acid and an alcohol?	A. NCHO B. CH_3COOH C. $\text{CH}_3\text{CH}_2\text{COOH}$ D. $\text{C}_6\text{H}_5\text{COOH}$
6	Which of the following is incorrect?	A. FeCl_3 is used in the detection of phenols B. Fehling solution is used in the detection of glucose C. Tollen's reagent is used in detection of unsaturation D. NaHSO_3 is used in the detection of carbonyl compounds
7	Benzophenone can be converted into benzene using	A. Fused alkali B. Anhydrous AlCl_3 C. Sodium amalgam in water D. Acidified dichromate
8	From which of the following tertiary butyl alcohol is obtained by the action of methyl magnesium iodide?	A. HCHO B. CH_3CHO C. CH_3COCH_3 D. CO_2
9	The addition of HCN to carbonyl compounds is an example of	A. Nucleophilic substitution B. Electrophilic addition C. Nucleophilic addition D. Electrophilic substitution
10	Chromyl chloride and toluene react to produce	A. p-chlorotoluene B. Benzaldehyde C. Benzyl chloride D. Benzoic acid
11	Which of the following organic compounds exhibits positive Fehling test as well as iodoform test?	A. Methanal B. Ethanol C. Propanone D. Ethanal
12	Clemmensen's reduction of ketones is carried out in	A. H_2 with Pd catalyst B. Glycol with KOH C. LiAlH_4 in water D. Zn-Hg with conc. HCl
13	In formaldehyde and KOH are heated then we get	A. Acetylene B. Methane C. Methyl alcohol D. Ethyl formate
14	$\text{C}_2\text{H}_5\text{CHO}$ and $(\text{CH}_3)_2\text{CO}$ can be distinguished by testing with	A. Phenyl hydrazine B. Hydroxylamine C. Fehling solution D. Sodium bisulphate
	In which reaction, aromatic aldehyde is treated with acid anhydride in the	A. Friedel-Crafts reaction

15	presence of corresponding salt of the acid to give unsaturated aromatic acid?	B. Perkin's reaction C. Wurtz reaction D. None of these
16	Give IUPAC name fo Acetone	A. Ethanal B. Propanone C. Butanone D. Propanal
17	Which of the following is a method of converting a unsaturated ketone into unsaturated hydrocarbon?	A. Aldol condensation B. Reimer Tiemann reaction C. Cannizaar's reaction D. Wolf-kishner reduction
18	Wolf-kishner reduction is used for the reduction of	A. Nitro compounds B. Carboxylic acids C. Carbonyl compounds D. Olefins
19	Reductive ozonolysis of benzene produces	A. Acetone B. Maleic anhydride C. Phthalic acid D. Glyoxal
20	Reduction with aluminium isopropoxide in excess of Isopropyl alcohol is called Meerwein Ponndroff-Verley reduction (MPV). What will be the final product when cyclohex-2-enone is selectively reduces in MPV reaction?	A. Cyclohexanol B. Cyclohex-2-enol C. Cyclohexanone D. Benzene
21	Acetone is oxidized with	A. Tollen's reagent B. Fehling solution C. Acidic dichromate solution D. Benedicts solution
22	Which of the following compounds gives a ketone with Grignard's reagent?	A. Formaldehyde B. Ethanenitrile C. Ethyl alcohol D. Methyl iodide
23	Acetal is produced by reacting alcohol in the presence of dry HCl with	A. Acetaldehyde B. Ketone C. Ether D. Carboxylic acid
24	Which of the following compounds does not react with NaHSO_3 ?	A. $\text{C}_6\text{H}_5\text{CHO}$ B. Acetophenone C. Acetone D. Acetaldehyde
25	Cyanohydrin of which of the following forms lactic acid	A. HCHO B. CH_3COCH_3 C. CH_3CHO D. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$
26	Which reaction yields Bakelite?	A. Urea with HCHO B. Tetramethyl glycol with Hexamethylene diisocyanate C. Phenol and HCHO D. Ethylene glycol and Dimethylterephthalate
27	Reduction of aldehydes with HI and P gives	A. Primary alcohols B. Secondary alcohols C. Alkanes D. Tertiary alcohols
28	A compound possessing α -hydrogen atom, in the presence of dilute alkali forms β -hydroxy aldehyde. This product on heating with dilute acid forms an unsaturated crotonaldehyde. The compound is	A. CH_3CHO B. $\text{CH}_3\text{CH}_2\text{CHO}$ C. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$ D. $\text{HC}=\text{C}-\text{CHO}$
29	Formalin is an aqueous solution of	A. Furfural B. Fluorescein C. Formaldehyde D. Formic acid
30	Acetone is prepared by	A. Oxidation of n-propyl alcohol B. Oxidation of acetaldehyde C. Pyrolysis of calcium acetate D. Pyrolysis of calcium acetate as well as acetic acid