

MDCAT Chemistry Chapter 17 Aldehydes and Ketones Online Test

Sr	Questions	Answers Choice
1	Carboxylic acid is more acidic than phenol because of the greater stability of	A. Carboxylic acid B. Phenoxide ion C. proton D. Carboxylate ion
2	Final product of hydrolysis of nitrile is	A. Ketone B. Alcohol C. Aldehyde D. Carboxylic acid
3	Carboxylic acids reacts with sodium carbonate, & gas evolved in this reaction	A. CO ₂ B. H ₂ C. CO D. Both a & b
4	Acetic acid reacts with thionyl chloride to form acetyl chloride, which species acts as nucleophile in the reaction	A. SO ₃ B. SO ₂ C. Cl ⁻ D. No nucleophile is formed
5	Octyl acetate has the flavor of	A. Orange B. Pineapple C. Banana D. Apple
6	Which of the following acid is unsaturated carboxylic acid	A. Malonic acid B. Oxalic acid C. Succinic acid D. Maleic acid
7	Ethyl butyrate has flavour like	A. Banans B. Jasmine C. Pineapple D. Orange
8	A compound X has all of the properties below. It is a liquid at 25°C it mixes completely with water it reacts with aqueous sodium hydroxide, What could X be?	A. Ethanoic acid B. Ethene C. Ethanol D. Ethyl ethanoate
9	Ethanoic acid reacts with PCl ₅ , to give ethanoyl chloride. HCl and a third compound What is the third compound	A. H ₃ PO ₃ , B. POCl ₃ C. SO ₂ D. COCl ₂
10	The specie that develops strongest hydrogen bonding with water	A. HCOOH B. CH ₃ CH ₂ COOH C. CH ₃ COOH D. ClCH ₂ COOH
11	solubility of carboxylic acids decreases in water with increase in molar mass because	A. Bigger molecules are more polar B. bigger molecules have bigger non-polar groups C. bigger molecules make more hydrogen bonds D. bigger molecules can form lesser hydrogen bonds/molecule
12	Which compound shows the highest melting point	A. water B. Propanoic acid C. Methanoic acid D. Ethanoic acid
13	An acid that exists as a cyclic dimer in benzene and shows a molar mass of 120g/mol is	A. CH ₃ COOH B. HCOOH C. Cl ₂ CHCOOH D. Cl ₃ CCOOH
14	The derivatives that cannot be prepared directly from the acetic acid	A. Acetamide B. Acetic anhydride C. Ethyl acetate D. Ester
		A. CaCO ₃ B. Na ₂ CO ₃ C. NaHCO ₃

15	Which one of the following will react with both ethanol and ethanoic acid at room temperature	B. CuO C. Na-metal D. CH ₃ OH
16	When ethyl magnesium bromide is treated with carbon dioxide and the product hydrolyzed we get	A. formic acid B. propionic acid C. oxalic acid D. acetic acid
17	In the presence of hot alkaline potassium permanganate solution 2-butene will give	A. Formic acid +acetic acid B. Two moles ethanoic acid C. Two moles of methanoic acid D. Ethylene glycol
18	Which compound is not formed as a result of reaction between acetic acid & HI & red phosphorous	A. Ethanol B. Water C. Iodine D. Ethane
19	Molar mass of formic acid in benzene comes out to be	A. 64 B. 46 C. 32 D. 92
20	Reaction of acetic acid with LiAlH ₄ gives	A. Ethanol B. Ethanal C. Ethane D. Ethyl acetate
21	Ester with raspberry flavor	A. Amyl acetate B. Isobutyl formate C. Amyl butyrate D. Octyl acetate
22	The Complete oxidation of ethanol produces first Ethanal then	A. Ethanal B. Propanone C. Ethanoic acid D. Benzoic acid
23	In esterification, the OH of carboxylic acid is replaced by	A. OR+ B. R+ C. OR D. R
24	Oils and fats belong to the class of	A. Alcohols B. Hydrocarbons C. Acids D. Esters
25	Slight oxidation of primary alcohol gives	A. Ketone B. Aldehyde C. -Organic acid D. An ester
26	All are dicarboxylic acids except	A. Oxalic acid B. Malonic acid C. Picric acid D. Tartaric acid
27	Propanoic acid is functional group isomer of	A. Methyl acetate B. Ethyl acetate C. Propanal D. Propanone
28	In the esterification, first attack is due to carboxylic acid	A. Hydrogen ion B. Alcohols C. Water D. All
29	Methyl cyanide, on boiling with mineral acids yield	A. Acetic acid B. Formic acid C. Propanoic acid D. Butanoic acid
30	Which one of the following reaction of carboxylic acid is reversible?	A. Esterification B. Salt formation C. Reaction with PCl ₅ D. Reaction with SOCl ₂
31	Which of the following has the lowest solubility in water	A. HCOOH B. CH ₃ COOH C. CH ₃ -CH ₂ -COOH D. C ₃ H ₇ -COOH
32	An organic compound made from oxidation of ethanol is	A. Formic acid B. Acetic acid C. Malonic acid D. Citric acid

33	Esters have fruity smell and are used as artificial favours. Amyl acetate gives flavour of	A. Banana B. Jasmine C. Pineapple D. Orange
34	Which of the following is a strong acid	A. CH_3COOH B. $\text{C}_2\text{H}_5\text{OH}$ C. HCOOH D. Phenol
35	Which of the following metal cannot evolve hydrogen from the acetic acid	A. Sodium B. Potassium C. Magnesium D. Copper
36	The formation of acetic anhydride from acetic acid follows the mechanism	A. S_N B. A_N C. S_E D. A_E
37	The formation of ester from acetic acid in presence of acid and ethanol is a	A. Nucleophilic substitution reaction B. Nucleophilic addition reaction C. Electrophilic substitution reaction D. Electrophilic addition reaction
38	The highest melting point is observed by	A. Butanoic acid B. Propanoic acid C. Pentanoic acid D. HCl
39	Compound X & Y give effervesce with Na_2CO_3 , solution. X gives a white ppt with ammonical AgNO_3 while Y gives sweet smell compound on heating with alcohol X & Y are	A. Formic acid & acetic acid B. Acetone & formic acid C. Acetaldehyde & acetic acid D. Acetic acid & acetone
40	Valeric acid is obtained from a herb valerian, its IUPAC name is	A. Propionic acid B. Pentanoic acid C. Butyric acid D. Caproic acid
41	Primary alcohols normally give us aldehyde when oxidized in the presence of acidified $\text{Na}_2\text{Cr}_2\text{O}_7$, what will be the product, when the secondary alcohols are oxidized in same condition?	A. Alkenes B. Alkyl halide C. Alkynes D. Ketones
42	Formamide is formed by the reaction of which acid with ammonia	A. Oxalic acid B. Formic acid C. Ethanoic acid D. Propanoic acid
43	Ethanoic acid reacts with all of these to produce water except	A. Ethanol B. Sodium C. Caustic soda D. Sodium hydrogen carbonate
44	One of the following compound reacts with its own oxidation product (an oxidation involves no loss of carbon) to give sweet odour liquid	A. Propanal B. Propanone C. 1-propanol D. Propanoic acid
45	Ethane nitrile can be converted into ethanoic acid through.....intermediate	A. Ethyl alcohol B. Acetyl chloride C. Acetamide D. Methyl cyanide