

MDCAT Chemistry Online Test

Sr	Questions	Answers Choice
1	Octyl acetate has the flavor of	A. Orange B. Pineapple C. Banana D. Apple
2	Methyl cyanide, on boiling with mineral acids yield	A. Acetic acid B. Formic acid C. Propanoie acid D. Butanoic acid
3	The formation of ester from acetic aciad in presence of acid and ethanol is a	 A. Nucleophilic substitution reaction B. Nucleophilic addition reaction C. Electrophilic substituion reaction D. Electrophilic addition reaction
4	Primany aleohols sornally give us aldehyde when oxidized in the presence of acidified Na2Cr2O7, what will be the product, when the secondary alcohols are oxidized in same condition?	A. Alkenes B. Alkyl halide C. Alkynes D. Ketones
5	An acid that exists as a cyclic dimer in benzene and shows a molar mass of 120g/mol is	A. CH3COOH B. HCOOH C. CI2CHCOOH D. CI3CCOOH
6	Velaric acid is obtained from a herb velarian, its IUPAC name is	A. Propionic acid B. Pentanoic acid C. Butyric acid D. Caporic acid
7	The Complete oxidation of ethanol produces first Ethanal than	A. Ethanal B. Propanone C. Ethanoic acid D. Benzoic acid
8	Esters have fruity smell and are used as artificial favours. Amyl acetate gives flavour of	A. Banana B. Jasmine C. Pineapple D. Orange
9	All are dicarboxylic acids except	A. Oxalic acid B. Malonic acid C. Picric acid D. Tartaric acid
10	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
11	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
12	Ethanoic acid reacts with all of these to produce water except	A. Ethanol B. Sodium C. Caustic soda D. Sodium hydrogen carbonate
13	The specie that develops strongest hydrogen bonding with water	A. HCOOH B. B.CH3CH2COOH C. CH3COOH D. CICH2COOH
14	Which one of the following will react with bothethand and ethanoic acid at room temperature	A. CaCO3 B. CuO C. Na-metal D. CH3OH
15	Which of the following has the lowet solubility in water	А. НСООН В. СНЗСООН С. СНЗ-СН2-СООН D. СЗН7-СООН

16	Slight oxidation of primary alcohol eives	A. Ketone B. Aldehyde COrganic acid D. An ester
17	Reaction of acetic acid with LiAIH4 gives	A. Ethanol B. Ethanal C. Ethane D. Ethyl acetate
18	A compound X has all of the properties below. It is a liquid at 25°C it mixes completely with water it reaets with aqueous sodium hydroxide, What could X be?	A. _{Ethanoic acid} B. Ethene C. Ethanol D. Ethyl ethanoate
19	Oils and fats belong to the class of	A. Alcohols B. Hydrocarbons C. Acids D. Esters
20	Ethanoic acid reacts with PCI5, to give ethanoyl chloride. HCI and a third compound What is the third compound	A. H3PO3, B. POCI3 C. SO2 D. COCI2
21	Compound X & Y give effervesce with Na2CO3, solution. X gives a white ppt with ammonical AgNO3 while Y gives sweet smell compound on heating with alcohol X &Y are	A. Formic acid & acetic acid B. Acetone & formic acid C. Acetaldehy de & acetic acid D. Acetic acid & acetone
22	Which of the following is a strong acid	A. CH3COOH B. C2H5OH C. HCOOH D. Phenol
23	In the esterification, first attack is due toon carborylic acid	A. Hydrogen ion B. Alcohols C. Water D. All
24	Which compound is not formed as a result of reaction between acetic acid & HI & red phosphorous	A. Ethanol B. Water C. lodine D. Ethane
25	Which of the following acid is unsaturated carboxylie acid	A. Malonic acid B. Oxalic acid C. Succinic acid D. Maleic acid
26	Which of the following metal cannot evolve hydrogen from the acetic acid	A. Sodium B. Potassium C. Magnesium D. Copper
27	The derivatives that cannot be prepared directly from the acetie acid	A. Acetamide B. Acetic anhydride C. Ethyl acetate D. Ester
28	Estyl butyrate has flavour like	A. Banans B. Jasmine C. Pineapple D. Orange
29	Ester with raspberry flavor	A. Amyl acetate B. Isobutyl formate C. Amyl butyrate D. Octyl acetate
30	Acetic acid reacts with thionyl chloride to form acetyl chloride, which species acts as nucleophile in the reaction	A. SO3 B. SO2 C. Cl- D. No nucleophile is formed
31	Carboxylic acids reacts with sodium carbonate, & gas evolved in this reaction	A. CO2 B. H2 C. CO D. Both a &b
32	An organic compound made from oxidation of ethanol is	A. Formic acid B. Acetic acid C. Malonic acid D. Citric acid
33	2-propanol on Oxidation gives	A. Aldehyde B. Carboxylic Acid C. Ketone

		D. Alcohol
34	An alcohol is converted to an aldehyde with same number of carbon atoms as that of alcohol in the presence of K2Cr2O7/H2S04 the alcohol is	A. CH3C(CH3)2OH B. (CH3)3COH C. <div>CH3CH2CH2OH</div> <div> </div> D. (CH3)2CHOH
35	The oxidation of 1 - propanol in the presence of H2SO4, +K2Cr207 produces final product	A. Acetaldehyde B. Propanal C. Acetone D. Propanoic acic
36	The conversion of tertiary alcohols into alkenes in the presence of K2Cr2O7 + H2SO4 is	A. Addition reaction B. C-H bond cleavage C. Elimination reaction D. Combustion reaction
37	When wine is put in air, it becomes sour due to	A. Oxidation of C2H5OH B. Formation of C2H5NH2 C. Reduction of C2H5OH D. Dissolution of CO2
38	Oxidation of secondary alcohol produces	A. Aldehyde B. Ketone C. Alkyl halide D. Ester
39	2-propanol on oxidation yield	A. Propionaldehyde B. Propanone C. Propanal D. Butanal
40	Identify the compound, which give iodoform test	A. Methanol B. 3- Hexanol C. Methyl ketone D. Propionaldehyde
41	To distinguish aldehyde from ketone which solution is used	 A. Alkaline solution B. Fehling's solution C. A solution containing K2Cr2O7 D. A solution containing acid only
42	Which reagent is responsible for the conversion of ketone to secondar alcohul	A. NaAlH B. NaBH4 C. Al D. Red P
43	.Both aldehydes and ketones are planar to the neighborhoods of carbonyl (C-0) group. Which one of the following bonds is distorted towards the oxygen atoms?	A. pi-bond of C and O B. Sigma bond of C and O C. Sigma bond of C and H D. Sigma bond of C and C
44	A student mixed ethyl alcohol with small amount of sodium dichromate and added it to the hot solution of dilute sulphuric acid. A vigorous reaction took place. He distilled the product formed immediately. What was the product?	A. Aceton3 B. Dimethyi ether C. Acetic acid D. Acetaldehyde
45	Consider the following reaction R-CHO + 2Ag(NH3)2OH + R-COONH+ +2Ag+2NH3+H2OThis reaction represents	A. Fehling test B. Ninhydrin test C. Benedict lest D. Tollen's test
46	Acetaldchyde and ketone form addition product with	A. Phenyl hydrazine B. Hydroxylamine C. Hydrazine D. hydrogen cyanide
47	In aldehydes and ketones carbon of carbonyl group is;	A. sp ³ hybridized B. sp ² hybridized C. sp hybridized D. un hybridized
48	When calcium formate and calcium acetate are dry heated they form	A. HCOOH B. C2H5OH C. CH3CHO D. HCHO
49	Which of the following gives positive haloform test and positive Fehling solution	A. Acetone B. Echanol C. Acetaldehyde D. Formaldehyde
50	The reagent used to distinguish between ethanol and propanal is	A. I2/ NaOH B. Benedict's reagent C. LiAIH D. sodium nitroprusside
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51	The addition compound obtained by reacting acetaldelyde and HCN, when lydrolyzed gives	A. Ethyl alcohol B. Methyl cyanide C. 2-Hydroxy propanoic acid D. Ethyl cyanide
52	The reaction of formaldehyde with HCN is	A. Nucleophilic substitution B. Electrophilic substitution C. Nucleophilic addition D. Free radical addition
53	Propanone does not undergo	A. Oxime formation B. Reduction of Fehling solution C. Hydrazone formation with hydrazine D. Reaction with HCN
54	Which of the following reagents reaet in same manner with HCHO, CH3CHO and CH3COCH3	A. HCN B. Cu2(OH)2/ NaOH C. Ammonical AgNO3 D. Cu(OH)2 only
55	Which of the following alcohol cannot be produced by treatment of aldehydes or ketones with NaBH4	A. I-propanol B. 2-Methyl-2-propanol C. 2-propanol D. Ethanol
56	Which of the following ketone will not give iodoform test	A. Methyl isopropyl ketone B. Dimethyl ketone C. Ethyl isopropyl ketone D. 2-hexanone
57	In which of the following types of reactions are the carbonyl compounds and alkene are similar in behaviour	A. Nucleophilic additionB. Electrophilic additionC. Nucleophilic substitutionD. Catalytic hydrogenation
58	Which of the following gives silver mirror with ammonicaT AgNO3	A. <div>Benzyl alcohol</div> B. Benzene C. Benzoic acid D. Benzaldehyde
59	Which of the follwing dnes not give brick red precispitate wits Fehling's solution	A. Acetaldehyde B. Formalin C. prorionaldehyde D. Acetone
60	Which of the following does not give yellow precipitate with I2+ NaOH	A. Acetone B. Benzaldehyde C. Acetildehyde D. Acetophenone