

MDCAT Chemistry Online Test

Sr	Questions	Answers Choice
1	Which of the following compound is least reactive	A. HCHO B. CH3CHO C. CH3COCH3 D. C6H5CHO
2	Which of the following test is not given by aldehvde	A. 2. 4 DNPH test B. NaHSO3 test C. Tollen's test D. Sodium nitroprusside test
3	The red brown ppt. of Fehling solution and benedict solution tests are of	A. Ag B. Cu2O C. CuO D. AgBr
4	which of the following is not a symmetrical ketone	A. 4-heptanone B. Butanone C. Propanone D. 3-pentanone
5	Reactivity of carbonyl compounds is due to	A. Electrophilic carbon B. Less stearic hindrance C. Unsaturation of Co D. Polarity of bond
6	C=O and C=C bonds are differentiated by	A. Hybridization of C-atom B. Bond angles C. Ammonical AgNO3 D. Conc. HNO3
7	Formalin is used as:	A. Fungicide B. Germicide C. Sterilizing of surgical instruments D. All three
8	Which one of the followings is resistant to oxidation under normal conditions	A. Methyl alcohol B. Acetaldehyde C. Ethyl alcohol D. Acetone
9	Acetone reacts with HCN to form a cyanohydrin. It is an example of	A. Nucleophilic addition B. Electrophilic substitution C. Electrophilic addition D. Nucleophilic substitution
10	Acetaldehyde cyanohydrin upon hydrolysis prodnces	A. Tartaric acid B. Malonic acid C. Formic acid D. Lactic acid
11	Formalin contains% alcohol.	A. 37 B. 80 C. 8 D. 52
12	Which of the following will undergo nucleophilic addition reaction more easily?	A. Aldehyde B. Alkene C. Aldehyde and ketone equally D. Neither aldehyde nor alkenes
13	What forces operate between ethyl group of ethyl alcohol and oxygen of water	A. H-bonding B. attractive forces C. repulsive forces D. dipole forces
		A. NaOH

14	Which will not react with phenol	B. Br2 C. KMn04/OH- D. Na
15	Alcohol is less acidie than phenol due to	A. higher ka value B. Instability of alkoxide ion C. stability of carbocation D. Stability of phenol
16	Formation of Picric acid from phenol needs heating, one possible reason for it is	A. acidity of phenol B. e- donating nature of-OH C. acidity of picric acid D. e- with drawing effect of- NO2
17	An electron with drawing group attached to e-position in phenol	A. makes it basic B. Stabilises the phenoxide ion C. decreases its basicity D. allows it to precipitate in aqueous solution
18	What is true about an alcohol and phenol	A. Both are more acidic than water B. Both react with NaOH C. Both produce CO2 with Na2CO3 D. Both, produce H2 with Na
19	Which reactant does hnof liberate water on reaction with alcohol	A. NH3 B. K2Cr2O7/15H2O C. HCI D. PCl3
20	The compound that reacts the slowest in Lucas test	A. 1-Pentanol B. sec-butyl alcohol C. 3-Pentanol D. ter- butyl alcoho
21	Esterification of CH3COOH isreaction	A. Acid base B. Electrophilic C. Redox D. Nucleophilic
22	The alcohol that does not form curbonyl compound on oxidation	A. Ethanol B. iso-butyl alcohol C. ter-butyl alcohol D. neo pentyl alcohol
23	Tertiary alcohols have alpha bydrogens	A. 1 B. Zero C. 2 D. 3
24	1, 3, 5-Pentanetriol has secondary carbon	A. 3 B. 1 C. 2 D. Zero
25	CH3CH2CH2OHAB Here B is	A. Propyne B. Propanal C. Propene D. Propane
26	The synthesis of ethene from ethyl alcohol is a reaction	A. Dehydration B. Polymerization C. Addition D. Substitution
27	The number of resonating structures of phenoxide ion are	A. 3 B. 5 C. 6 D. 4
		A. OH- B. CH3O-
28	The strongest conjugate base is	C. C6H5O- D. CH3COO-
29	One of the following can produce greater number of moles of ethyl chloride on reacting with escess of ethanol	A. PCI5 B. PCI3 C. HCI/ZnCI2 D. SOCI2
30	During esterifcation, the alcobol molecule acts as:	A. Oxidizing agent B. Electrophile C. Reducing agent D. Nucleophile
31	The acidity of phenol is due to its	A. Nature of Benzene B. Double bond in benzene ring C. Natute of phenoxide ion D. Hydroxyl group

		D. πγατολγι γ ιουμ
32	Reaction of alcohol with hydrogen chloride, in the presence of Zinc chloride yields	A. Ketone B. Carboxylic C. Alkyl halide D. Ester
33	Which one of the following is an appropriate indication of positive iodoform test?	A. Formation of H2O B. Brick red precipitate C. Release of H2 gas D. Yellow precipitate
34	Which one of the following groups is indicated when HCl is formed by reaction of ethanol with phosphorous pentachloride?	A. Amino group B. Halide group C. Hydroxyl group D. Hydride group
35	Which one of the following alcohol is indicated by formation of yellow crystals in lodoform tesr?	A. Methanol B. Ethanol C. Butanol D. Propanol
36	Primary, secondary aad tertiary alcohols can be identified and distinguished by	A. Lucas test B. lodoform test C. Baeyer's test D. Silver mirror test
37	The dehydration of ethyl alcohol with concentrated H2SO4 at 140°C gives	A. Ethene B. Alcohol C. Diethyl ether D. Carboxylic acid
38	Relative acidic strength of alcohol, phenol, water and carboxylie acid is	A. Carboxylic acid > Alcohol > Phenol > Water B. Carboxylic acid > Phenol > Water> Alcohol C. Water > Alcohol> Phenol > Carboxylic acid D. Phenol > Carboxylic acid > Alcohol> Water
39	In ethyl alcohol, the bond that undergoes heterolytic cleavage most readily is	A. C-C B. C-O C. C-H D. O-H
40	Which of the following is soluble in water?	A. CH3OH B. CCL4 C. CHCl3 D. CS2
41	Which one of the following is more acidic	A. Phenol B. Carboxylic acid C. Alcohols D. Amines
42	Temperature required for the dehydration of ethanol into ethene in the presence of HaSOu is	A. 130°C B. 170°C C. 175°C D. 180°C
43	Which of the following alcohol is more soluble in H2O	A. Propanol B. Butanol C. Pentanol
44	Phenol is completely soluble in water above	D. Hexanol A. 25°C B. 62.3°C C. 68.5°C D. 66.50°c
45	Phenol is colourless, crystalline and solid	A. Hygroscopie B. Deliquescent C. Moistening D. Odourless
46	Phenol can be diatingushed from ethyl alcohol by all of the following reagents except	A. lodoforrn test B. Na C. Br2 /H2O D. NaOH
47	Which of the substance is not going to react the sodium metal:	A. Acetic acid B. Methanol C. Di methyl ether D. Ethanol
48	Which of the following alcohols is least reactive with respect to 0-H bond	A. CH3OH B. CH-CH2-OH C. (CH3)2-CH-OH D. (CH3)3-OH

D. (OI 10)0011	.	$\langle \cdot \rangle$	\sim	,~~;	
----------------	----------	-------------------------	--------	------	--

He starting substance for the preparation of iodoform is any of the following, except			D. (O110)0011
Ethanol reacts with sodium metal to liberate 8. CO gas C. Pt gas D. Steam A Pralochol B. Tr alochol C. Sr alochol D. Cannot be predicated D. Cannot be predicated A Soluble in water E. Steam A Soluble in water C. Soluble in	49	The starting substance for the preparation of iodoform is any of the following, except	B. CH3CH2OH C. HCH2OH
51 Which of the following is more reactive where 0-H bonds break B. T* alcohol C. Salochol D. Cannot be predicated 52 Alcohols of low molecular weight are: B. Soluble in water C. Soluble in water C. Soluble in water on heating D. Insoluble in all solvents 53 Which is most acidic? B. C2HSOH C. C4HSOH D. CH3-CH2-CH2OH 54 Which alcohol is most reactive towards sodium metal? A. Ter Butyl alcohol B. n-Propyl alcohol D. CH3-CH2-CH2OH 55 A compound z' decolorizes bromine water and produces white ppt. The compound 'z' is Denze me reactivity A. Alkane B. Alcohol D. Penardol D. Alkyl halide & Samp; H3PO3. C. Malloy halide & Samp; H3PO4. 56 Ethyl alcohol reacts with PCL and produces: A. Haloalkane B. Alkyl halide & Samp; H3PO4. Alkyl halide & Samp; H3PO4. B. Alkyl halide & Samp; H3PO4. B. Alkyl halide & Samp; H3PO4. B. Alkene 57 Tertiary aleohols producewith acidified KMno, A. Ketones B. Aldehydes C. Malonic acid D. Picro acid B. Tartaric acid C. Malonic acid D. Picro acid 58 2.4.6-Trinitrophenol is commonly called as A. 3-Methylbutan-2-ol B. Ethanol C. 2. Methylpropan-2-ol D. Methanol C. 2. Methylpropan-2-ol D. Methanol C. 2. Methylpropan-2-ol D. Methanol C. 3. Methylpropan-2-ol D. Alkyl halide Edge C. Methylpropan-2-ol D. Methanol C. 3. Methylpropan-2-ol D. Methanol C. 3. M	50	Ethanol reacts with sodium metal to liberate	B. CO gas C. H2 gas
52 Alcohols of low molecular weight are: B. Insoluble in water on heating D. Insoluble in all solvents 53 Which is most acidic? A H20 B. C2H50H C. C4H90H D. CH5-CH2-CH2OH 54 Which alcohol is most reactive towards sodium metal? A. Ter Butyl alcohol B. P. Propyl alcohol D. Have same reactivity 55 A compound z' decolorizes bromine water and produces white ppt. The compound 'z'is A. Alkane B. Alcohol C. Phenol D. Benzene 56 Ethyl alcohol reacts with PCL and produces: A. Haloalkane B. Alkyl halide & Amp; POCI3 D. Alkene 58 2,4,6-Trinitrophenol is commonly called as A. Phthalic acid B. Tartaric acid C. Malonic acid D. Alkene 59 Which of the following undergoes easy dehydration? B. Ethanol C. 2. Methylpotan-2-ol D. Methanol 60 Which of the following reactions does not involve formation of carbocation? A. SN1 and E1 B. El and E2 C. SN1 and SN2	51	Which of the following is more reactive where 0-H bonds break	B. T° alcohol C. S°alcohol
53 Which is most acidic? B. C2H5OH C. C4H9OH D. CH3-CH2-CH2OH 54 Which alcohol is most reactive towards sodium metal? A. Ter Butyl alcohol B. n-Propyl alcohol C. Isopropyl alcohol D. Have same reactivity 55 A compound z' decolorizes bromine water and produces white ppt. The compound 'z'is A. Alkane B. Alcohol C. Phenol D. Benzene 56 Ethyl alcohol reacts with PCL and produces: A. Haloalkane B. Alkyl halide & Bamp; H3PO3, C. Alkyl halide & Bamp; H3PO3, D. Alkyl halide & Bamp; H3PO4. 57 Tertiary aleohols producewith acidified KMno, A. Ketones B. Aldehydes C. Malonic acid D. Alkene 58 2,4,6-Trinitrophenol is commonly called as A. Phthalic acid B. Tartaric acid C. Malonic acid D. Picric acid 59 Which of the following undergoes easy dehydration? A. 3-Methylbutan-2-ol B. Ethanol C. 2. Methylpropan-2-ol D. Methanol 60 Which of the following reactions does not involve formation of carbocation? A. SN1 and E1 B. El and E2 C. SN1 and SN2	52	Alcohols of low molecular weight are:	B. Insoluble in waterC. Soluble in water on heating
Which alcohol is most reactive towards sodium metal? C. Ispropyl alcohol D. Have same reactivity A. Alkane B. Alcohol D. Have same reactivity A. Alkane B. Alcohol C. Phenol D. Benzene A. Haloalkane B. Alcohol C. Phenol D. Benzene A. Haloalkane B. Alkyl halide & Samp; H3PO3, C. Alkyl halide & Samp; POCI3 D. Alkyl halide & Samp; POCI3 D. Alkyl halides & Samp; H3PO4. Tertiary aleohols producewith acidified KMno, A. Ketones B. Aldehydes C. Malonic acid D. Alkene S. Alkyl halides & Manuelles B. Altander B. Tartanic acid C. Malonic acid D. Picric acid D. Picric acid D. Methanol C. 2. Methylpropan-2-ol D. Methanol C. 2. Methylpropan-2-ol D. Methanol B. Etland E2 C. SN1 and SN2	53	Which is most acidic?	B. C2H5OH C. C4H9OH
A compound z' decolorizes bromine water and produces white ppt. The compound 'z'is B. Alcohol C. Phenol D. Benzene A Haloalkane B. Alkyl halide & Amp; H3PO3, C. Alkyl halide & Amp; H3PO3, D. Alkyl halide & Amp; POCI3 D. Alkyl halide & Amp; H3PO4. Tertiary aleohols producewith acidified KMno, Tertiary aleohols producewith acidified KMno, A. Ketones B. Aldehydes C. Malonic acid D. Alkene A. Phthalic acid B. Tartaric acid C. Malonic acid D. Picric acid D. Picric acid Which of the following undergoes easy dehydration? A. 3-Methylbutan-2-ol B. Ethanol C. 2. Methylpropan-2-ol D. Methanol A. SN1 and E1 B. El and E2 C. SN1 and SN2	54	Which alcohol is most reactive towards sodium metal?	B. n-Propyl alcolol C. Isopropyl alcohol
Ethyl alcohol reacts with PCL and produces: Ethyl alcohol reacts with PCL and produces: C. Alkyl halide & Samp; H3PO3, C. Alkyl halide & Samp; H3PO4. A. Ketones B. Aldehydes C. Malonic acid D. Alkene A. Phthalic acid B. Tartaric acid C. Malonic acid D. Picric acid D. Picric acid Which of the following undergoes easy dehydration? A. SN1 and E1 B. El and E2 C. SN1 and SN2	55	A compound z' decolorizes bromine water and produces white ppt. The compound 'z'is	B. Alcohol C. Phenol
Tertiary aleohols producewith acidified KMno, B. Aldehydes C. Malonic acid D. Alkene A. Phthalic acid B. Tartaric acid C. Malonic acid D. Picric acid A. 3-Methylbutan-2-ol B. Ethanol C. 2.Methylpropan-2-ol D. Methanol Which of the following reactions does not involve formation of carbocation? A. SN1 and E1 B. El and E2 C. SN1 and SN2	56	Ethyl alcohol reacts with PCL and produces:	B. Alkyl halide & hap; H3PO3, C. Alkyl halide & hap; POCl3
2,4,6-Trinitrophenol is commonly called as 8. Tartaric acid C. Malonic acid D. Picric acid A. 3-Methylbutan-2-ol B. Ethanol C. 2.Methylpropan-2-ol D. Methanol Which of the following reactions does not involve formation of carbocation? A. SN1 and E1 B. El and E2 C. SN1 and SN2	57	Tertiary aleohols producewith acidified KMno,	B. Aldehydes C. Malonic acid
Which of the following undergoes easy dehydration? B. Ethanol C. 2.Methylpropan-2-ol D. Methanol A. SN1 and E1 B. El and E2 C. SN1 and SN2	58	2,4,6-Trinitrophenol is commonly called as	B. Tartaric acid C. Malonic acid
Which of the following reactions does not involve formation of carbocation? B. El and E2 C. SN1 and SN2	59	Which of the following undergoes easy dehydration?	B. Ethanol C. 2.Methylpropan-2-ol
	60	Which of the following reactions does not involve formation of carbocation?	B. El and E2 C. SN1 and SN2