

## MDCAT Chemistry Chapter 22 Online Test

Sr	Questions	Answers Choice
1	Which of the following acts as a nucleophile in the reaction of alkyl halide with alcoholic aqueous ammonia?	A. $\text{NH}_3$ B. $\text{H}^+$ C. $\text{Br}^-$ D. $\text{NO}_2^-$
2	The species which are produced by electrolytic bond breaking and can act as electron pair donors are known as.	A. Cations B. Anions C. Nucleophiles D. Free radical
3	Which compound is obtained by the elimination of bromopropane?	A. Propene B. Ethene C. Propane D. Butane
4	Relation of water with quick lime result in the rise in the temperature of the system using the concept of energy change, indicate the nature of the reaction?	A. Endothermic reaction B. Third order reaction C. Exothermic reaction D. Non spontaneous reaction
5	Ligands having two lone pair of electrons for donation to the central transition metal ion are known as.	A. Bidentate ligands B. Hexadentate ligands C. Polydentate ligands D. Monodentate ligands
6	Which product is formed by the reaction of carboxylic acid with alcohol?	A. Aldehyde B. Ether C. Alkane D. Ester
7	Which of the following reagents is used to distinguish between aldehydes and ketones?	A. 2,4 NDPH B. Bromine C. Alkaline Iodine D. Tollen's reagent
8	Which of the following acts as an electrophile in the electrophilic substitution of benzene with bromine?	A. $\text{Fe}^{+3}$ B. $\text{Br}^-$ C. $\text{FeCl}_4^-$ D. $\text{Fe}^{+2}$
9	Which of the following compound is solid at room temperature?	A. Ethanal B. Phenol C. Butane

	solid and room temperature?	D. Methanol
10	The dilute solution of _____ is called vinegar.	A. Formic acid B. Acetic acid C. Oxalic acid D. Benzoic acid
11	Which one of the following compounds is known as tertiary alcohol?	A. 1-Propanol B. 2-methyl-1 propanol C. 2-propanol D. 2-methyl-2-propanol
12	Electron affinity of the atom is the energy released when	A. electron is removed from gaseous atom B. Covalent bond of molecule is broken C. Electron is added to gaseous atom D. Covalent bond is formed between the atom
13	Why is it necessary to distill aldehyde formed from oxidation of primary alcohol through acidified potassium dichromate (VI) solution or acidified sodium dichromate (VI) solution.	A. Aldehyde formed may be oxidised further to carboxylic and concerned B. Aldehyde formed may react with primary alcohol the original reactant C. Aldehyde formed may be oxidised further to a ketone D. Aldehyde formed is unstable and decomposed back to original precursor, ie. primary alcohol
14	Which compound will be produced by the oxidation of ethanol by acidified K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> ?	A. Ethanone B. Ethene C. Ethanoic acid D. Ethanol
15	In period 1 and period 3 maximum melting point shown by elements.	A. Nitrogen and phosphorous B. Carbon and silicon C. Lithium and sodium D. Neon and argon
16	Liquid in the container have temperature 70 °C. What will be the temperature in Kelvin Scale?	A. 203 K B. 350 K C. 343 K D. 300 K
17	Which is the correct electronic configuration of chromium.	A. $1s^{<sup>2</sup>, 2s^{<sup>2</sup>, 3s^{<sup>2</sup>, 2p^{<sup>6</sup>, 3p^{<sup>6</sup>, 4s^{<sup>2</sup>, 3d^{<sup>6</sup>}$ B. $1s^{<sup>2</sup>, 2s^{<sup>2</sup>, 2p^{<sup>6</sup>, 3s^{<sup>6</sup>, 3p^{<sup>6</sup>, 3d^{<sup>6</sup>}$ C. $1s^{<sup>2</sup>, 2s^{<sup>2</sup>, 3s^{<sup>2</sup>, 2p^{<sup>6</sup>, 3p^{<sup>6</sup>, 4s^{<sup>2</sup>, 3d^{<sup>4</sup>}$ D. $1s^{<sup>2</sup>, 2s^{<sup>2</sup>, 2p^{<sup>6</sup>, 3s^{<sup>2</sup>, 3p^{<sup>6</sup>, 4s^{<sup>2</sup>, 3d^{<sup>5</sup>}$
18	Which is the structure of polyvinyl chloride?	A. [H <sub>2</sub> C=CH-Cl] B. -[HCCl-CH <sub>2</sub> -Cl]- C. -[H <sub>2</sub> C-CH <sub>2</sub> -Cl]- D. -[CCl <sub>2</sub> -CCl <sub>2</sub> ]-
19	Which of the following molecule has largest number of shared pair of electrons?	A. CO <sub>2</sub> B. N <sub>2</sub> C. NH <sub>3</sub> D. C <sub>2</sub> H <sub>4</sub>
20	Which one the following is the structure of Teflon?	A. (-CH <sub>2</sub> -CH <sub>2</sub> -) <sub>n</sub> B. (-CF <sub>2</sub> -CH <sub>2</sub> -) <sub>n</sub> C. (-CF <sub>2</sub> -CF <sub>2</sub> -) <sub>n</sub> D. (-CF <sub>2</sub> -CCl <sub>2</sub> -) <sub>n</sub>