

MDCAT Chemistry Online Test

Sr	Questions	Answers Choice
1	Helical structure of protein is stabilized by	A. Peptide bond B. Dipeptide bond C. Van der wall's forces D. Hydrogen bonding
2	Polar ice caps can melt due to	A. Acid rain B. Green House Effect C. Smog D. Chlorofluorocarbons
3	The enthalpy change ΔH of a process is given by the relation	A. $\Delta H = \Delta E + P\Delta V$ B. $\Delta H = \Delta E + W$ C. $\Delta H = \Delta E - \Delta nRT$ D. $\Delta E = \Delta H + P\Delta V$
4	Detergents are	A. synthetic products B. natural products C. both a and b D. none of the above
5	Which compound is not formed as a result of reaction between acetic acid & HI & red phosphorous	A. Ethanol B. Water C. Iodine D. Ethane
6	One of the following can produce greater number of moles of ethyl chloride on reacting with excess of ethanol	A. PCl_5 B. PCl_3 C. $HCl/ZnCl_2$ D. $SOCl_2$
7	RNA is a polymer of a nucleotide which consist of three components. Which one is not the component in the nucleotide of an RNA	A. D-Ribose B. wracil base C. prosphate group D. thymine base
8	Which one of the following is an appropriate indication of positive iodoform test?	A. Formation of H_2O B. Brick red precipitate C. Release of H_2 gas D. Yellow precipitate
9	If a polymer has mass 63000, and the molar mass of repeating unit is 63 what is its degree of polymerization is	A. $10^{>3</sup>}$ B. $10^{>2</sup>}$ C. $10^{>5</sup>}$ D. None of these
10	Chromium (VI) is highly toxic and can cause	A. Blindness B. Cancer C. Liver problems D. Blood problems
11	Essential alpha-amino acids are those which are necessary in the diet. Which one is an essential alpha-amino acids	A. Alanine B. Aspartic acid C. Glycine D. Tryptophan
12	CFCs destroy ozone layer. How many ozone molecule a chlorine free radical can destroy?	A. 50000 B. 20000 C. 100000 D. 10000
13	Which of following compound is solid and room temperature?	A. Ethanal B. Phenol C. Butane D. Methanol
14	Which is not true in case of an ideal gas?	A. It cannot be converted into a liquid B. There is no interaction between the molecules C. All molecules of the gas move with same speed D. At a given temperature PV is proportional to the amount of the gas
		A. fluorine is a very small-sized atom

15	Halogens form halogen acids. HF is the weakest among all of them This is due to the reason that	<p>B. fluorine is highly electronegative atom</p> <p>C. there is strong hydrogen bonding in HF</p> <p>D. the polarity of HF bond is less</p>
16	Which is the polymer that has amide linkage in its structure	<p>A. PVC</p> <p>B. Poly ethene</p> <p>C. Polyester</p> <p>D. Nylon</p>
17	Vegetable oil are	<p>A. unsaturated fatty acids</p> <p>B. glycerides of unsaturated fatty acids</p> <p>C. glycerides of saturated fatty acids</p> <p>D. essential oil obtained from plants</p>
18	The oxidation state of carbon in $\text{C}_2\text{O}^{-2}_4$ is	<p>A. +4</p> <p>B. -4</p> <p>C. +3</p> <p>D. +2</p>
19	Photo chemical smog contains _____ as main reactants	<p>A. Nitrons oxide and unburnt hydrocarbons</p> <p>B. Nilric oxide and unburnt hydrocarbons</p> <p>C. No and burnt hydrocarbons</p> <p>D. N_2O and burnt hydrocarbons</p>
20	Total heat content of a system is called	<p>A. Internal energy</p> <p>B. Entropy</p> <p>C. Enthalpy</p> <p>D. All of these</p>