

## MDCAT Chemistry Online Test

Sr	Questions	Answers Choice
1	Born-Haber cycle is an application of	A. Hess's law B. 1 <sup>st</sup> law of thermodynamics C. Avogadro's law D. 1 <sup>st</sup> law of thermochemistry
2	The degree of unsaturation in fats or oils is usually measured by numbers of grams of iodine required by 100 grams of fat, this is called	A. oil number B. saturation number C. iodine number D. un saturation number
3	pH of $10^{-4}$ mole $\text{dm}^{-3}$ of HCl	A. 2 B. 4 C. 3 D. 5
4	Cyclobutane structure is categorized under	A. Aromatic compounds B. Aliphatic compounds C. Alicyclic compounds D. Heterocyclic compounds
5	What will be the shape of a molecule which contain two sigma bond pairs and one lone pair?	A. Linear B. V shape C. Tetragonal D. Triangular
6	Hydrolysis of protein by 6M HCl gives peptides and then alpha-amino acids. How many alpha-amino acids molecules are obtained on the hydrolysis of a tetrapeptide	A. 2 B. 3 C. 4 D. 5
7	Zn has	A. Zero unpaired electrons B. Three unpaired electrons C. Five unpaired electrons D. One paired electrons
8	If a gas expands at constant temperature	A. The pressure decreases B. The Kinetic energy of the molecules remains the same C. The kinetic energy of the molecules decreases D. The number of molecules of the gas increase
9	What is the formula of dolomite?	A. $\text{CaMg}_3(\text{SiO}_3)_4$ B. $\text{MgCO}_3$ C. $\text{MgCO}_3 \cdot \text{CaCO}_3$ D. $\text{MgSO}_4$
10	Cyclone collector is used to reduce:	A. noise pollution B. air pollution C. water pollution D. radioactive pollution
11	Name the compound, which shows geometric isomerism	A. 1-bromo-2-chloropropene B. 2,3-dimethylpropene C. 2-pentene D. Both A & B
12	Which of the following reactions does not involve formation of carbocation?	A. $\text{SN}_1$ and $\text{E}_1$ B. $\text{E}_1$ and $\text{E}_2$ C. $\text{SN}_1$ and $\text{SN}_2$ D. $\text{E}_2$ and $\text{SN}_2$
13	The oxidation of $\text{SO}_2$ to $\text{SO}_3$ is exothermic reaction. The yield of $\text{SO}_3$ will be maximum if	A. Temperature is increased and pressure is kept constant B. Temperature is reduced and pressure is increased C. Both temperature and pressure are increased D. Both temperature and pressure are increased
14	The structure of protein helps protein to	A. be in proper shape B. attach substrate

		C. perform is function D. All of these
15	The transition temperature of $\text{KNO}_3$ , is	A. $13.2^\circ\text{C}$ B. $95.5^\circ\text{C}$ C. $128^\circ\text{C}$ D. $32.02^\circ\text{C}$
16	Which among the following will show anisotropy?	A. Wood B. Glass C. Paper D. $\text{BeCl}_2$
17	The structural isomerism arises due to the difference in the	A. Number of atoms in the molecule B. Arrangements of atoms in the molecule C. Number as well as arrangement of atoms in the molecule D. Spatial arrangement of atoms
18	Which of the following is sweetest sugar	A. Glucose B. Maltose C. Fructose D. Sucrose
19	The reaction that generates an ionic bond is	A. Halogenation of ethene B. polymerization of ethene C. Hydrogenation of ethyne D. Reaction of ethyne with sodamide
20	Choose the crop for which ammonium nitrate is not used:	A. paddy rise   B. cotton   C. wheat   D. sugar cane  