

## MDCAT Chemistry Online Test

Sr	Questions	Answers Choice
SI	Questions	
1	According to Hess's law, the enthalpy change for a reaction	<ul> <li>A. Depends on path</li> <li>B. Independent of the path</li> <li>C. The sum of ΔE and ΔH</li> <li>D. None of these</li> </ul>
2	NO and NO <sub>2</sub> gases in atmosphere are represented by	A. NO B. NO <sub>4</sub> C. NO <sub>x</sub> D. N <sub>x</sub> O <sub>y</sub>
3	pH of 10-4 mole dm-3 of HCl	A. 2 B. 4 C. 3 D. 5
4	Which of the following best describes the shape and polarity of the carbon disulphide molecule?	A. Bent and polar B. Linear and non-polar C. Pyramidal and polar D. Bent and non-polar
5	Per hydro cyclopentano phenathrene is the basic structure of all the:	A. Proteins B. vitamins C. waxes D. amines C. waxes D. amines B. vitamines C. waxes D. amines D. amines 
6	In ethyl alcohol, the bond that undergoes heterolytic cleavage most readily is	A. C-C B. C-O C. C-H D. O-H
7	The main pollution of leather tanneries in the waste is due to the salt of	A. Chromium B. Copper C. Chromium D. Lead
8	When the concentration of product is increased the instantaneous rate of reaction with reference to reactants will be	A. Positive B. Negative C. the same D. falling curve
9	Which one is best buffer those have	A. pH = pKa B. pH > pKa C. pOH < pKb D. pKa =0
10	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
11	Which of following is oxidation state of oxygen in peroxides?	A2 B. 1/2 C1 D. +2
12	Formic acid is obtained from red out by:	A. Distillation B. Crystallization C. Filtration D. Sublimation
13	Coagulation in the purification of water is carried out by	A. Alum B. NiSO <sub>4</sub> C. BaSO <sub>4</sub> D. CuSO <sub>4</sub>
14	Ozone acts as:	A. Pollutant B. saver C. oxidatant D. All of these
15	Deposition of cholesterol in arteries is responsible for:	A. Heart attach B. diabetes C. hepatitis D. cancer br>

		A1 to 0
16	If Cl2 is passed through hot NaOH. NaClO3 is formed and the oxidation number of Cl changes from	B. 0 to +5
		C. 0 to-1
17		D. 0 to +1
		A. NH3-
	When acid is added to an amino acid, which one of the following will act as a base.	B. COO-
		C. H+
18		D. R group
		A. Strongly basic
	Amides are	B. Weakly basic
		C. Acidic
		D. Strongly
19	Fresh water of total earth water is:	A. 1%
		B. 2%
		C. 3%
		D. 4%
20	The enzyme which is found in saliva, accelerates the conversion of starch into sugar is	A. Pepsin
		B. Thrombin
		C. Ptyalin
		D. Fumarase