

## ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The amount of solute present in the given amount of solvent is called	A. Molarity B. Molality C. Concentration D. Solubility
2	Question Image 	A. Primary alkyl halide B. Secondary alkyl halide C. Tertiary alkyl halide D. None of these
3	If an endothermic reaction is allowed to take place very rapidly in air, the temperature of the surrounding air :	A. Remains constant. B. Decreases. C. Increases. D. Fluctuates rapidly.
4	$N_2 + 3H_2 \rightleftharpoons 2NH_3 + \text{Heat}$ for above equation, the maximum product will be obtained at :	A. Low temperature at high pressure. B. High temperature and low pressure. C. High temperature and high pressure. D. Low temperature at low pressure.
5	Ethanol can be prepared by fermenting the following in the presence of oxygen.	A. Protein B. Oil C. Glucose D. None of these
6	During reaction of $O_2$ and alkenes, a product:	A. Glycol B. Epoxide C. Halohydrin D. Ethylene glycol
7	If an endothermic reaction is allowed to take place very rapidly in the air, the temperature of the surrounding air:	A. Remains constant. B. Increase. C. Decreases. D. Remain unchanged.
8	The solubility of $KClO_3$ salt in water is decreased by adding	A. $NaClO_3$ B. $NaCl$ C. $KClO_4$ D. $KCl$
9	In Boyle's law which of the following pair is variable :	A. Temperature and quantity of a gas. B. Pressure and volume C. Volume and quantity of a gas. D. Pressure and quantity of a gas.
10	A solution containing 5.8 grams acetone ( $CH_3OCH_3$ ), 4.6 gram ethyl alcohol ( $C_2H_5OH$ ) and 12 grams chloroform ( $CHCl_3$ ) has mole fraction and mole percent of acetone	A. 0.11, 10% B. 0.33, 33% C. 0.22, 22% D. 0.11, 33%
11	The solution of which acid is used for seasoning of food ?	A. Formic acid B. Acetic acid C. Benzoic acid D. Butanoic acid
12	The mathematical form of first law of thermodynamics is	
13	If an electrophile attacks then _____ bond breaks first	A. C - H B. O - H C. C - O D. None of these
14	Heat absorbed or released during the chemical reaction of physical process at constant pressure is equal to	
15	Clemensen's reduction of ketones is carried out in	A. $H_2$ with Pd catalyst B. Glycol with KOH C. $LiAlH_4$ in water D. Zn-Hg with conc. HCl
16	In Boyle's law which of the following pair remains constant	A. Temperature and quality of a gas B. Pressure and quality of a gas C. Temperature and pressure D. Pressure and temperature

17	De halogenatiion of tetrahalides happens in the presence of active metal like	A. Zn B. Mg C. Both a and b D. None of them
18	Which of the following salts mixed with ice to make the freezing mixture used in ice cream machine	A. $\text{KNO}_3$ B. $\text{NH}_4\text{NO}_3$ C. $\text{AgNO}_3$ D. $\text{Mg}(\text{NO}_3)_2$
19	The net heat change in chemical reaction is same whether it is brought in two or more different ways in one or several steps. it is known as	A. Henry's law B. Joule's principle C. Hess's law D. Law of conservation of energy
20	Structure of $\text{P}_4$ is	A. Trigonal B. Tetragonal C. Hexagonal D. Monoclinic