

## ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The most reactive compound for electrophilic nitration will be	A. Benzyl chloride B. Benzoic acid C. Nitrobenzene D. Chlorobenzene
2	Which of the following oxides is amphoteric in character?	A. CaO B. $\text{CO}_2$ C. $\text{SiO}_2$ D. $\text{SnO}_2$
3	Ethanal may be converted into a three-carbon acid in a two-step process. Which compound is the intermediate	A. $\text{CH}_3\text{CO}_2\text{H}$ B. $\text{CH}_3\text{CN}$ C. $\text{CH}_2\text{CH}_2\text{CN}$ D. $\text{CH}_3\text{CH}(\text{OH})\text{CN}$
4	Which is the used as test for the presence of alkenes	A. Reaction of cold dilute alkaline $\text{KMnO}_4$ B. Combustion C. Polymerization D. Catalytic hydrogenation
5	The trade name of polytetrafluoroethylene (PTFE) is	A. Teflon B. PVC C. Terelene D. Polyester
6	Alkanes normally have _____ hybridization	A. Sp B. $\text{Sp}^2$ C. $\text{Sp}^3$ D. d $\text{sp}^3$
7	All reactions occur in :	A. A single step. B. A series of steps C. Two steps. D. Both (a) and (b)
8	When aluminium electrode is coupled with copper electrode in a galvanic cell :	A. Reduction takes place at aluminium electrode. B. Oxidation takes place at copper electrode. C. Reduction takes place at copper electrode. D. Both (a) and (c)
9	The detection of functional group is called	A. Numerical analysis B. Qualitative analysis C. Combustion analysis D. Quantitative analysis
10	One of the following bonds is polar but compound is non-polar	A. $\text{H}_2\text{O}$ B. $\text{NH}_3$ C. HCl D. $\text{CO}_2$
11	Equal volumes of ethylene glycol (molar mass = 62) and water (molar mass = 18) are mixed. The depression in freezing point of water is (given $K_f$ of water = $1.86 \text{ K mol}^{-1}\text{kg}$ and specific gravity of ethylene glycol is 1.11)	A. 0.003 B. 3.33 C. 0.333 D. 33.3
12	A solution of glucose is 10% The volume to which 1g mole of it dissolved will be :	A. $8.1 \text{ dm}^3$ B. $1.7 \text{ dm}^3$ C. $1.8 \text{ dm}^3$ D. $6.1 \text{ dm}^3$
13	The ratio of moles of a particular component of solution to total moles of all components of solution is :	A. Mole fraction. B. Molality. C. Molarity. D. Molar ratio.

D. Normality.

14	Energy of electron in the infinite Bohr orbit of H-atom is	A. 0 KJ/mole B. 1 KJ/mole C. -1 KJ/mole D. -1313.32 KJ/mole
15	At sea level and at 100°C the vapor pressure of water in an open system is:	A. 1000 mm Hg B. 760 mm Hg C. 730 mm Hg D. 670 mm Hg
16	Alcohols reacts with Grignard reagent to form	A. Alkanes B. Alkenes C. Alkynes D. All
17	Ketones are prepared by the oxidation of:	A. Primary alcohol B. Secondary alcohol C. Tertiary alcohol D. None of these
18	Which one of the following is not an alkali metal	A. Francium B. Caesium C. Rubidium D. Radium
19	One of the followings is not type of polymer	A. Homopolymer B. Copolymer C. Heteropolymer D. Terpolymer
20	What is the molarity of H <sub>2</sub> SO <sub>4</sub> solution that has density of 1.84 gm/cc at 35°C and contains 98% by weight?	A. 4.18 M B. 8.14 M C. 18.4 M D. 18 M