

## ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	$Al^{3+}$ is a symbol for aluminium	A. Atom B. Ion C. Cation D. Anion
2	Which of the following compounds contains the highest percentage by mass of nitrogen?	A. Ammonia, $NH_3$ B. Ammonium carbamate, $NH_2CO_2NH_4$ C. Ammonium carbonate, $(NH_4)_2CO_3$ D. Hydrazine, $N_2H_4$
3	Which of the following oxides is unlikely to dissolve in aqueous hydroxide	A. $Al_2O_3$ B. MgO C. $SO_2$ D. $SiO_2$
4	Kekule structures contributed towards actual structure of benzene	A. 60% B. 70% C. 80% D. 90%
5	Formalin is:	A. 10% solution of formaldehyde in water B. 20% solution of formaldehyde in water C. 40% solution of formaldehyde in water D. 60% solution of formaldehyde in water
6	According to Le-Chatelier's principal, adding heat to a solid and liquid in equilibrium will cause the	A. Amount of solid to decrease B. Amount of liquid to decrease C. Temperature to rise D. Temperature to fall
7	In 1000 molecules of 0.001 M acetic acid the number of $H^+$ ions is 12.6, then its percentage of ionization is	A. 1.33% B. 1.26% C. 12.6 D. 1%
8	During nitration of benzene. the active nitrating agent is	A. $NO_3^{+}$ B. $NO_2^{+}$ C. $NO_2^{+}$ D. $HNO_3$
9	The paper is derived from the name of which seedy plant?	A. Rose B. Sun flower C. Papyrus D. Water Hyacinth
10	The structure of complex hydrides is	A. Tetrahedral B. Trigonal C. Octahedral D. Square planar
11	Which of the following is a tetrabasic acid?	A. Orthophosphoric acid B. Hypophosphorus acid C. Metaphosphoric D. Pyrophosphoric acid
12	Transition elements form which type of bond	A. Ionic bonds only B. Covalent bonds only C. Ionic and covalent bonds D. Polar bonds
13	The number of unpaired electrons in $Mn^{2+}$ is	A. 5 B. 4 C. 3 D. 2
14	A solution having pH = 4 its $OH^-$ ion concentration in mole $dm^{-3}$ is	A. $1.0 \times 10^{-4}$ B. $1.0 \times 10^{-10}$ C. $1.0 \times 10^{-14}$ D. $1 \times 10^0$
15	Acetaldehyde is used to make	A. Rubbber B. Antiseptics C. Phenolic resin

16	Which statement is correct for the fuel cells	<p>D. All of these</p> <p>A. These cells operate at low temperature B. These cells operate at low temperature C. No catalyst used for the formation of water D. <math>\text{MnO}_2</math> is used as electrolyte</p>
17	The ratio of volume to temperature on Kelvin scale is constant according to	<p>A. Charle's law B. Newton's law C. Coulomb's law D. Boyle's law</p>
18	Transition elements are called so because:	<p>A. Form interstitial compounds B. have high m.p C. In between 's' and 'p' block elements D. All of these</p>
19	The correct set of quantum numbers (n, l and m) respectively of the unpaired electron of chlorine atom is	<p>A. 2,1,0 B. 2,1,1 C. 3,1,1 D. 3,2,1</p>
20	Amongst the following the compound that can be most readily sulphonated is	<p>A. Toluene B. Benzene C. Nitrobenzene D. Chlorobenzene</p>