

## ECAT Chemistry Online Test

Sr	Questions	Answers Choice
1	Eutrophication causes reduction in	A. Dissolved hydrogen B. Dissolved oxygen C. Dissolved salts D. All the above
2	The color of Cr <sup>3+</sup> ion is	A. Violet B. Blue C. Pink D. Green
3	Question Image	A. Proton donar B. Dehydrating agent C. Catalyst D. Electrophile
4	The chloroform reacts with NaOH to give	A. CH <sub>3</sub> COONa B. Sodium oxalate C. CH <sub>3</sub> OH D. HCOONa
5	$K_{sp}$ value for PbSO <sub>4</sub> = 1.8 x 10 <sup>-8</sup> mole <sup>2</sup> dm <sup>-6</sup> . The maximum concentration of Pb <sup>++</sup> ions is	A. 1.34 x 10 <sup>-4</sup> mole dm <sup>-3</sup> B. 1.8 x 10 <sup>-4</sup> C. 3.6 x 10 <sup>-16</sup> mole dm <sup>-3</sup> D. 1.0 x 10 <sup>-8</sup> mole dm <sup>-3</sup>
6	Purification of an impure copper is made by electrolytic cell, in which impure copper is anode and pure copper is cathode, and the electrolyte used is	A. H <sub>2</sub> SO <sub>4</sub> B. CuSO <sub>4</sub> C. ZnSO <sub>4</sub> D. Na <sub>2</sub> SO <sub>4</sub>
7	The rate constant k of a reaction activation energy Ea and temperature are related by Arrhenius in the form of an equation which is	
8	Which of the following does not react with phenyl hydrazine?	A. Ethanol B. Ethanal C. Acetone D. Acetophenone
9	Chemical equilibrium involving reactants and products in more than one phase is called	A. Static B. Dynamic C. Homogeneous D. Heterogeneous
10	For the representative elements from left to right across a period in the periodic table, the electron effinity of the atom generally	A. Increases B. Remains constant C. Decreases D. Not clear
11	The stability of acromatic compounds decreases with in the no. of its resonance structure	A. Decrease B. Increase C. Remain constant D. Partially decreases
12	Alkanes have functional group :	AX BOH CCOH D. No functional group
13	Which element does not belong to 3d transition series	A. Ti B. V C. Mn D. Te
14	The acid which has a peroxy linkage is	A. Sulphurous acid B. Pyrosulphuric acid C. Dithionic acid D. Caro's acid
15	The oxides of electronegative elements are	A. Basic B. neutral C. Acidic

		D. Ampnoteric
16	The formation of compounds like PF <sub>5</sub> , BCl <sub>3</sub> , SF <sub>6</sub> indicates that	A. These halides are ionic     B. These halides are covalent     C. They are Lewis acids     D. Octet rule not obeyed so the rule is not universal
17	Which statement is true about order of reaction :	A. Order of reaction can only be determined by an experiment.     B. Order of reaction can be determined from a balance equation only.     C. Order of reaction increase by increasing temperature.     D. Order of reaction must be in whole number and not in fraction.
18	Hydrogenation of alkenes/alkynes inthe presence of Ni as catalyst at 3000°C result in the formation of corresponding alkanes. This reaction is known as	A. Sabatier-senderens reaction B. kolbes reaction C. Cannizaro's reaction D. Haloform reaction
19	Benzene has a structure	A. Pentagonal B. Hexagonal C. Heptagonal D. Tetragonal
20	DNA is a polynucleic acid. The monomer is known as a nucleotide. What is not the component of the nucleoptide	A. Phosphate group B. Deoxy ribose sugar C. Uracil base D. Adenine base