

## ECAT Chemistry Online Test

Sr	Questions	Answers Choice
1	Monocarboxylic acids exist as dimer because of	A. Dipole-dipole attraction B. Hydrogen bonding C. Van der Waals forces D. Conhesive forces
2	Which of the following reactions is used for detecting presence of carbonyl group?	A. Reaction with hydroxylamine B. Reaction with hydrazine C. Reaction with phenyl hydrazine D. All
3	Which of the following pair contains isomers of each other	A. Propanoic acid and propanone B. Acetone and acetaldehyde C. Ethyl alcohol and diethyl ether D. Methyl alcohol and dimethyl ether
4	The base used in Cannizzaro's reaction is	A. NaOH B. KOH C. CHI <sub>3</sub> D. All of these
5	The equation for the first ionization energy of hydrogen is	
6	The polymers which can not be re-softened again and again are called	A. Thermoplastic B. Thermosetting C. Both a and b D. None
7	Generally the bond formed by metals with non-metals is	A. lonic B. Covalent C. Polar D. Non- polar
8	Self linkage of carbon to produce long chains	A. isomerism B. Polymorphism C. Polymerization D. Catenation
9	The rate of reaction is denoted by	A. dc/dp B. dc/ac C. dc/dT D. dc/dt
10	Which of the following isoelectronic ions has the lowest ionization energy?	A. K <sup>+</sup> B. Ca <sup>2+</sup> C. Cl <sup>-</sup> D. S <sup>2-</sup>
11	Which of the following orbitals have a dumb bell shape?	A. s B. p C. d D. f
12	$K_{b}$ for NH <sub>4</sub> OH is 1.81 x 10 <sup>-5</sup> , then $K_{a}$ value of its conjugate base is	A. 1.81 x 10 <sup>+5</sup> B. 1.81 x 10 <sup>-9</sup> C. 5.5 x 10 <sup>-9</sup> D. 5.5 x 10 <sup>-10</sup>
13	When ammonia is heated with cupric oxide, a molecule of ammonia will	A. Gain 3 electrons B. Lose 3 electrons C. Gain 2 electrons D. Lose 2 electrons
14	Question Image	A. 1st order B. 2nd order C. Zero order D. 3rd order
15	For which system does the equilibrium constant, KC has units of concentration	
16	Precipitation will occur until the ionic product becomes	A. Equal to K <sub>sp</sub> B. Lesser than K <sub>sp</sub> C. Greater than K <sub>sp</sub> D. None of these
		A. Body can not synthesize

17	Essential amino acids are those amino acids which	B. Body can synthesize C. <span style='color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 248);'>α</span> -amino acids D. <span style='color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 224);'>β</span> -amino acids
18	When $\mathrm{CO}_2$ is made to react with ethyl magnesium iodide, followed by acid hydrolysis, the product formed is	A. Propane B. Propanoic acid C. Propanal D. Propanol
19	Which of the following may affect the rate constant (k) fro a reaction :	<ul><li>A. Change in concentration.</li><li>B. Change in pressure.</li><li>C. Change in pH.</li><li>D. Change in temperature.</li></ul>
20	Question Image	A. 32 B. 64 C. 16 D. 4