

## ECAT Chemistry Online Test

Sr	Questions	Answers Choice
1	When chlorofluoro carbon are subjected to U.V. they form	A. Cations B. Anions C. Free radicals D. None of these
2	A sequence of how many nucleotides in massenger RNA makes a codon for an amino acid	A. Three B. Four C. One D. Two
3	When sodium metal reacts with alcohols	A. Hydrogen gas evolves B. Sodium hydroxide is obtained C. Alcohol is reduced D. Alcohol is polymerised
4	The osmotic pressure of 1 m solution at 27°C is	A. 2.46 atm B. 24.6 atm C. 1.21 atm D. 12.1 atm
5	The shape of ClO <sup>-</sup> 3according to valence shell electron pair repulsion theory will be	A. Planar triangle B. Pyramidal C. Tetrahedral D. Square planar
6	The increase in size of the anion is due to:	A. Increase in electron-electron repulsion B. Increase in valence shell electrons. C. Decrease in valence shell electrons. D. Both (a) and (b).
7	K,Ca and Li metals may be arranged in decreasing order of their reduction potential as :	A. Li, k, Ca B. Ca, K, Li C. Li, Ca, K D. K, Ca, Li
8	The amount of Si in the lithosphere is about	A. 27.72% B. 30.35% C. 35.30% D. 40.21%
9	When 6d orbital is complete, the entering electron goes into:	A. 7f. B. 7s. C. 7p. D. 7d.
10	The value of $K_{\mbox{\footnotesize p}}$ is greater than $K_{\mbox{\footnotesize C}}$ for a gaseous reaction when	A. Number of molecules of products is greater than the reactants B. Number of molecules of reactants is greater than those of products C. Number of molecules of reactants and products equal D. Catalyst is added
11	Oxidation of 2-propanol gives	A. Propanone B. Butanone C. Pentanone D. None of these
12	Synthetic rubber is made by polymerization of	A. Chloroform B. Acetylene C. Divinlacetylene D. Butene
13	The process of osmosis was first discovered by	A. Nollet B. Pfeffer C. Traube D. Dutrochet
14	The fibre which contains polymers of vinylidine chloride as fibre forming substance is known as	A. Saran fibre B. Nylon C. Polyester D. Acetate fibre

15	What will react differently with the two isomeric pentols, (CH3)3CCH2OH and (CH3)2CH CH2CH2OH	A. Acidified (aq) KMnO <sub>4</sub> 2SO <sub>4</sub> C. PCI D. Sodium
16	Eletronegativity difference in C-C bond in alkanes is:	A. Zero B. Double C. Half D. 4.0
17	Same amount of electric current is passed through solutions of AgNO <sub>3</sub> and HCl. If 1.08 g of silver is obtained in the first case, the amount of hydrogen liberated as S.T.P in the second case is	A. 112 cm <sup>3</sup> B. 22400 cm <sup>3</sup> C. 224 cm <sup>3</sup> D. 1.008 g
18	The elimination of hydrogen halide from adjacent carbon atoms is called	A. Dehydrogenation     B. Hydrogenation     C. Dehydrohalogenation     D. Hydrohalogenation
19	A compound X contains 50% sulphur and 50% oxygen by mass. What is the empirical formula of compound X?	A. SO B. SO <sub>2</sub> C. SO <sub>3</sub> D. SO <sub>4</sub>
20	Generally electron affinities for elements in a period from left to right	A. Decreases B. Increases C. Remain same D. Increases alternatively