

## ECAT Chemistry Online Test

C-	Overtions	Anguaga Chaiga
Sr	Questions	Answers Choice
1	Which one is a polymer compound?	A. SO <sub>2</sub> B. CO <sub>2</sub> C. CH <sub>4</sub> D. PVC
2	Which of the statement is contrary to the first law of thermodynamics	A. Energy can neither be created nor destroyed B. One form of energy can be transferred into an equivalent amount of other kinds of energy C. In an adiabatic process the work done is independent of its path D. Continuous production of mechanical work without supplying an equivalent amount of heat is possible
3	Which is used for the reduction of aldehydes and ketones	A. NaBH <sub>4</sub> B. Pt/Pd C. Ni D. All of these
4	Which of the following salt is used as purgative	A. CaSO <sub>4</sub> B. MgSO <sub>4</sub> C. BeSO <sub>4</sub> D. NaCl
5	Aromatic hydrocarbons are the derivatives of	A. Normal series of paraffins B. Alkene C. Benzene D. Cyclohexane
6	lodoethane reacts with sodium in ether, the product formed is	A. Pentene B. Propyne C. Butene D. Butane
7	In exothermic reaction decrease in potential energy of the products will result in	A. Decreases in kinetic energy of the particles B. Increases in kinetic energy of the particles C. No change in kinetic energy D. Decreases in activation energy
8	Bakelite is obtained from phenol by reacting with	A. Acetaldehyde B. Acetal C. Formaldehyde D. Chlorobenzene
9	$K_a$ value of HF acid is 6.7 x 10 <sup>-15</sup> the acid is a	A. Weak acid B. Moderately strong acid C. Strong acid D. Very weak acid
10	At room temperature, the mole fraction of a solution in 0.25 and the vapour pressure of the solvent is 0.80 atm. Then the lowering of vapour pressure is	A. 0.75 B. 0.512 C. 0.80 D. 0.0512
11	The process of electrical coating of one metal on another to protect, decorate or to have greater resistance to corrosion is called	A. Electroplating B. Electrolysis C. Conduction D. Induction
12	pKb value of NH4OH is 4.74. If the concentration of NH4OH is 1 molar containing 0.1 molar NH4Cl, then pH of this buffer will be	A. 3.74 B. 10.26 C. 4.74 D. 9.26
13	If ketone reacts with Grignard's reagent, it also produces alcohol, But it will be a	A. primary alcohol B. Secondary alcohol C. Tertiary alcohol D. Aromatic alcohol
14	The orbitals having n + I = 5 are	A. 2p, 3d,3s B. 3p, 3d, 5s

		C. 3s, 4p, 4d D. 5s, 4p, 3d
15	The vapour pressure of two liquids 'p' and 'Q' are 80 and 60 torr respectively. The total vapour pressure of solution obtained by mixing 3 mole of P and 2 mol of Q would be	A. 140 torr B. 20 torr C. 68 torr D. 72 torr
16	Optical rotation method is sued when	A. Reaction involve ions     B. Change of refractive indices     C. Reactions involving change of optical activity     D. None of the above
17	The reference electrode is made by using	A. ZnCl <sub>2</sub> B. CuSO <sub>4</sub> C. HgCl <sub>2</sub> D. Hg <sub>2</sub> Cl <sub>2</sub>
18	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
19	Which of the following are electropositive in nature	A. Alkali metals B. Alkaline earth metals C. Halogens D. Alkali and alkaline earth metals
20	Question Image	A. Introduction of an inert gas at constant volume     B. Introduction of PCl <sub>3</sub> (g) at constant     C. Introduction of PCl <sub>5</sub> (g) at constant volume     D. Introduction of Cl <sub>2</sub> at constant volume