

ECAT Chemistry Online Test

Sr	Questions	Answers Choice
1	Ketones are prepared by the oxidation of:	A. Primary alcohol B. Secondary alcohol C. Tertiary alcohol D. None of these
2	The effective activity of a metal catalyst is increased if it is in	A. Solid form B. Liquid state C. Gaseous state D. Finely divided form
3	The major portion of natural gas is	A. Ethane B. Propane C. Butane D. Methane
4	Which of the following is not a colligative property?	A. Depression in freezing point B. Elevation of boiling point C. Osmotic pressure D. Modification of refractive index
5	Hydrolysis of alkyl nitriles gives:	A. alkane B. alkyl halide C. alkyl nitride D. carboxylic acids
6	Francium is an element at the bottom of Group I in the Periodic Table. Which one of the following predication is likely to be correct?	A. It will react with water to liberate oxygen B. Its hydroxide will be a strong alkali in water C. Its carbonate will decompose on heating to give carbon dioxide D. Its nitrate on heating will give nitrogen dioxide and oxygen
7	A solution consisting of 92 grams ethyl alcohol (C_2H_5OH) 96 grams methyl alcohol (CH_3OH) 90 grams water the mole fraction and mole percent of methyl alcohol is	A. 0.3. 30% B. 0.2, 30% C. 0.5, 30% D. 0.2, 20%
8	Sodium is manufacture by the electrolysis of fused sodium chloride and not from an aqueous solution of sodium chloride because	A. Sodium chloride does not ionize in the water solution B. Sodium chloride is not soluble in water C. Sodium deposited at the cathode may react with water to form sodium hydroxide D. Electricity does not pass through aqueous NaCl
9	The chemist who synthesized urea from ammonium cyanate was	A. Berzelius B. Kolbe C. Wholer D. Lavoisier
10	Which of the following organic compounds exhibits positive Fehling test as well as iodoform test?	A. Methanal B. Ethanol C. Propanone D. Ethanal
11	The number of groups in the periodic table is	A. 6 B. 7 C. 8 D. 9
12	At present the number of cement factories is Pakistan are	A. 20 B. 22 C. 25 D. 30
13	What happens when isotonic solution of A (mol.wt.342) and B (mol.wt 60) are put in to communication through semipermeable membrane?	A. Transference of solvent from solution A to that of B take place B. Transference of solvent from solution B to that of A takes place C. No transference of solvent from solution A to that of B takes place

		D. Change in temperature of solutions takes place
14	When two hydrogen atoms approach to form a chemical bond	A. The repulsive forces dominate the attractive forces B. The attractive forces, dominate the repulsive forces C. The energy of atoms increases D. The two atoms start ionization
15	Which set of hybrid orbitals has planar triangular shape	A. sp ³ B. sp C. sp ² D. dsp ²
16	The total number of transition elements is:	A. 10 B. 14 C. 40 D. 50
17	The alkyl halide molecule on which a nucleophile attacks is called	A. Substrate B. Subsituent C. Substituted D. All of these
18	Which is true about the electronegativity order of the following?	A. P > Si B. C > N C. Br > Cl D. Sr > Ca
19	1 erg of energy corresponds to	A. 6.02 x 10 ²³ J/mol B. 6.02 x 10 ¹⁶ J/mol C. 1 erg/mol D. 10 ⁻⁷ J/mol
20	Picric acid is	A. 2, 4, 6-Trinitrotoluene B. 2, 4, 6-Tribomoethanol C. 2, 4,6-Trinitrophenol D. Para-Nitrophenol