

## ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The state of hybridization of carbon atom in methane is:	A. $sp^3$ B. $sp^2$ C. sp D. $dsp^2$
2	A fuel has the same knocking property as a mixture of 70 isooctane (2, 2, 4- trimethyl pentane) and 30% n-heptane by volume the octane number of the fuel is	A. 100 B. 70 C. 50 D. 40
3	The molarity of toluene solution in benzene is 0.22 if 5 grams of toluene dissolved, then mass of benzene is grams is	A. 267 B. 260 C. 240 D. 247
4	The free spaces between the metal atoms and its crystal lattice are called	A. Valance spaces B. Empty spaces C. Interstices D. None
5	The percentage of carbon in different types of iron products is in the order of	A. Cast iron > wrought iron > steel B. Wrought iron > steel > cast iron C. Cast iron > steel > wrought iron D. Cast iron = steel > wrought iron
6	Which of the following with aqueous KOH will give acetaldehyde?	A. 1, 2-Dichloroethane B. 1,1-Dichloroethane C. Chloracetic acid D. Ethyl chloride
7	The orbitals having $n + l = 5$ are	A. 2p, 3d, 3s B. 3p, 3d, 5s C. 3s, 4p, 4d D. 5s, 4p, 3d
8	Formula of chloroform is	A. $CH_3Cl$ B. $CCl_4$ C. $CH_2Cl_2$ D. $CHCl_3$
9	Ionic Solids are characterized by	A. Low melting points B. Good conductivity in solid state C. High vapour pressure D. Solubility in polar solvents
10	When carbon dioxide is passed through the R - Mg - X is produced	A. Any carboxylic acid B. Propanoic acid C. Propanedioic acid D. None of these
11	Hydrocarbons, $SO_2$ , CO, $NH_3$ , nitrogen oxides and compounds of fluorine are called	A. Primary pollutant B. Secondary pollutant C. Tertiary pollutant D. None of these
12	The amount of heat evolved or absorbed in a process in the same whether the process takes place in one or several steps is the statement of	A. First law of thermodynamics B. Hess's law C. Coulomb's law D. Phase law
13	The amount of energy required to remove an electron from an atom of an element in the gaseous state is called	A. Electron affinity B. Electronegativity C. Ionization energy D. None of these
14	The wave number of the line emitted is $109.678 \times 10^5 m^{-1}$ in the Lyman series when electron transition occurs	
15	Polypeptide chains are coiled about one another into a spiral by	A. Ionic bonds B. Covalent bonds C. Van der Waal's forces

D. Hydrogen bonds

16	Micro-nutrients are required in quantity ranging from	A. 4g-40g B. 6g-200g C. 6Kg-200Kg D. 4Kg-40Kg
17	In which molecule carbon atom is $sp^2$ hybridized	A. $CH_4$ B. $C_2H_4$ C. $C_2H_2$ D. None of the above
18	Rusting can be avoided by :	A. Making alloys B. Tin or Zinc plating C. Use of enamel D. All of these
19	Which of the following is a natural polymer?	A. Terylene B. Polysaccharide C. Nylon D. Polyethene
20	The chemical formula of Epson salt is	A. $MgSO_4$ B. $MgCl_2$ C. $MgSO_4 \cdot 7H_2O$ D. $MgCl_2 \cdot 7H_2O$