

ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	What is formed when oxalic acid is dehydrated by conc. H_2SO_4 ?	A. $\text{C} + \text{CO}_2$ B. CO C. CO_2 D. $\text{CO} + \text{CO}_2$
2	Boyle's law is represented as :	A. $\frac{1}{T} \propto \frac{1}{P}$ B. V and $\frac{1}{P}$ C. P and $\frac{1}{P}$ D. P and $\frac{1}{P}$
3	95% ethanol is called :	A. Rectified ether. B. Diesel. C. Rectified spirit. D. Petrol.
4	When SO_2 is passed through acidified $\text{K}_2\text{Cr}_2\text{O}_7$ solution	A. The solution turns blue B. The solution is decolourised C. SO_2 is reduced D. Green Cr^{2+} (SO_4^{2-}) ₃ is formed
5	For a chemical reaction to take place the particles must have sufficient energy for the effective collisions, the energy is called	A. Average energy B. Activation energy C. Potential energy D. Collision energy
6	From the difference between expected bond energies for the normal covalent bond and experimentally determined values Pauling calculated the values of	A. Ionization potential of elements B. Electron affinity of elements C. Electronegativity of elements D. Bond length
7	The structure of ICl_2 is	A. Trigonal B. Trigonal bipyramidal C. Octahedral D. Square planar
8	Carbonates of alkaline earth metals decomposes to respective metal	A. Oxides B. Nitrates C. Sulphates D. CO_2
9	An organic compound, on treatment with Br_2 in CCl_4 gives bromoderivative of an alkene. The compound will be	A. $\text{CH}_3 - \text{CH} = \text{CH}_2$ B. $\text{CH}_3\text{CH} = \text{CHCH}_3$ C. $\text{HC} = \text{CH}$ D. $\text{H}_2\text{C} = \text{CH}_2$
10	Ethyl bromide on treatment with alcoholic KOH gives	A. Ethylene B. Ethanol C. Acetic Acid D. Ethane
11	Marble is chemically	A. CaCl_2 B. CaCO_3 C. Na_2CO_3 D. NaHCO_3
12	Ultraviolet radiation from sun causes a reaction that produces	A. Fluorides B. Carbon monoxide C. Sulphur dioxide D. Ozone
13	Hydrocarbon which is liquid at room temperature is	A. Pentane B. Butane C. Propane D. Ethane

A. London dispersion forces

14	Force of attraction between atoms of He is	B. Hydrogen bondign C. Coordinate covalent bond D. Covalent bond
15	The free spaces between the metal atoms and its crystal lattice are called	A. Valance spaces B. Empty spaces C. Interstices D. None
16	Aqueous solution of glucose $C_6H_{12}O_6$, boils at $100.052^\circ C$. The solution contains	A. 180 grams glucose in 1 kg water B. 18 grams glucose in 1 kg water C. 1.8 grams glucose in 1 kg water D. 3.6 grams glucose in 1 kg
17	Question Image	
18	The shape of the molecule SF_2Cl_2 is	A. Trigonal bipyradmial B. Cubic C. Octahedral D. Tetrahedral
19	The substances which are added to the soil to provide one or more nutrient elements essential for plant growth are called	A. Minerals B. Hormones C. Fertilizers D. None of these
20	50 mL of 10 N H_2SO_4 , 25mL of 12 N HCl and 40 mL of 5N HNO_3 are mixed and the volume of the mixture is made 100 mL by adding water. The normality of resulting will be	A. 1 N B. 2 N C. 3 N D. 9 N