ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	A. 300 cm³ B. 200 cm³ C. 150 cm³ D. 100 cm³
2	At present cement plants in Pakistan are:	A. Ten B. Twenty Two C. Four D. Twenty Four
3	Electrochemical series is a list of element S arranged into the increasing order of their	A. Standard oxidation potential B. Standard reduction potential C. Cell voltage D. Ionization potential
4	Octane number can be changed by	A. Isomerisation B. Alkylation C. Cyclisation D. All of these
5	In gases and liquids, temperature is the measure of	A. Average translational kinetic energies of molecules B. Average vibrational kinetic energies of molecules C. Average rotational kinetic energies of molecules D. None of above
6	The graph between pressure and volume at constant temperature for a gas is	A. Isobaric B. Isothermal C. Isotherm D. None of above
7	Gases show uniform behaviour towards their	A. Internal conditions B. External conditions C. Internal and external conditions D. None of above
8	The total number of rare earth elements is	A. 8 B. 32 C. 14 D. 10
9	Which is insoluble carbonate?	A. KCO₃ B. CaCO₃ C. Na₂CO₃ D. K₂CO₃
10	Burning of coal and hydrocarbon in air are examples of :	A. Non-spontaneous reaction. B. Spontaneous reaction. C. Natural reaction D. Both (a) and (C)
11	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
12	Out of all the elements of group V1-A the highest melting and boiling points is shown by the element	A. Te B. Se C. S D. Pb
13	In alkynes the bonds between carbon atoms are	A. All sigma bonds B. All pi(π) bonds C. One is sigma and two areπ(pi) bonds D. One isπ(pi) and two are sigma bonds

14	Factor which slows down the rate of reaction is	A. Small size of the particles of the reactant B. High temperature of reaction C. More concentration of reactant D. Lowering the temperature
15	A food chemist wants to create the odour of pineapples for a product. An ester with this odour has the formula $C_3H_7COOC_2H_5$.Which pair of reagents would produce this ester	A. C₂H₅Cl and C₃H₇COOH B. C₂H₅OH and C₃H₇CONH₂ C. C₂H₅OH and C₃H₇COOH D. C₃H₇OH and C₂H₅COCl
16	Iron, once dipped in concentrated H_2SO_4, does not displace copper from copper sulphates solution, because	A. It less reactive than copper B. A layer of sulphates is deposited on it C. An inert layer of iron oxide is deposited on it D. All valence electrons of iron are consumed
17	The process in which the solvent molecules are surrounded and interact with solute ions or molecules is called	A. Solvation B. Hydration C. Hydrogenation D. None
18	Swage water is purified by	A. Microorganisms B. Light C. Fishes D. Aquatic plants
19	Which ion will have the maximum value of heat of hydration?	A. Na⁺ B. Cs⁺ C. Ba⁺ D. Mg⁺²
20	One of the following bonds is polar but compound is non-polar	A. H₂O B. NH₃ C. HCl D. CO₂