

ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Alpha rays consist of:	A. Neutrons. B. Helium nucleus. C. Protons. D. Hydrogen nucleus.
2	Number of molecules in one dm ³ of water is close to :	A. $6.02/22.4$ B. $12.04/22.4 \times 10^{23}$ C. $18/22.4 \times 10^{23}$ D. $55.6 \times 6.02 \times 10^{23} \times 10^{23}$
3	The molarity of the solution containing x grams (NH ₄) ₂ SO ₄ in 500 cm ³ of the solution is 0.6 what is x	A. 39.6 B. 45.1 C. 40.5 D. 42.7
4	The percentage of methane in natural gas is	A. 50% B. 60% C. 85% D. 90%
5	Benzene does not undergo	A. Substitution reaction B. Addition reaction C. Oxidation reaction D. Elimination reaction
6	In electrolysis of NaCl when Pt electrode is taken then H ₂ is liberated at cathode while with Hg cathode it forms sodium amalgam	A. Hg is more inert than Pt B. More voltage is required to deduce H ⁺ at Hg than Pt C. Na is dissolved in Hg while it does not dissolve in Pt D. Conc. of H ⁺ ions is larger when Pt electrode is taken
7	The order of decreasing ease of reaction with ammonia is	A. Anhydrides, esters, ethers B. Anhydrides, ethers, esters C. Ethers, anhydrides, esters D. Esters, ethers, anhydrides
8		A. Ethanol in the presence of concentrated sulphuric acid B. Potassium hydroxide C. Sodium D. Sodium carbonate
9	Dehydration of glycerol give	A. Propane B. Propene C. Acrolein D. Benzene
10		A. Shift reaction toward forward direction B. Shift reaction backward C. Lower the value of K _c D. No change in reaction
11	In which of the following theories the hybridization is considered	A. Vsepr B. Lewis C. Molecule orbital D. Valence bond
12	K _{sp} value for PbSO ₄ = $1.8 \times 10^{-8} \text{ mole}^2 \text{ dm}^{-6}$. The maximum concentration of Pb ⁺⁺ ions is	A. $1.34 \times 10^{-4} \text{ mole dm}^{-3}$ B. 1.8×10^{-4} C. $3.6 \times 10^{-16} \text{ mole dm}^{-3}$ D. $1.0 \times 10^{-8} \text{ mole dm}^{-3}$
		A. Diamagnetic

13	What is wrong about transition metals?	B. Paramagnetic C. Form complexes D. Shows variable oxidation state
14	Colour of PCl_5 is:	A. Red B. Yellowish White C. Grey D. Colourless
15	Cement plaster is made by mixing plaster of paris with	A. glue or oil B. gypsum C. glycol D. alum or borax
16	The general formula of saturated alicyclic hydrocarbons is:	A. C_nH_n B. C_nH_{2n} C. $\text{C}_n\text{H}_{2n+2}$ D. $\text{C}_n\text{H}_{2n-1}$
17	Which of the following metal requires radiation of highest frequency to cause emission of electrons?	A. Na B. Mg C. K D. Ca
18		A. Plank's equations B. de Broglie's equations C. Heisenberg's equation D. None
19	B-atom in BF_3 has	A. sp^3 hybridization B. sp^2 hybridization C. sp hybridization D. no hybridization
20	Maximum hydrogen bonds in water are	A. 4 B. 3 C. 2 D. 8