

## Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	The valence orbital configuration of an element with atomic number 23 is	<p>A. <math>3d^5</math></p> <p>B. <math>3d^3 4s^2</math></p> <p>C. <math>3d^3 4s^1</math></p> <p>D. <math>3d^5 4s^1</math></p>
2	A current of 9.65 ampere flowing for 10 minutes deposits 3.0 g of the metal which is monovalent the atomic mass of the metal is	<p>A. 10</p> <p>B. 50</p> <p>C. 30</p> <p>D. 96.5</p>
3	Vital force theory was rejected by	<p>A. Berzelius</p> <p>B. Kolbe</p> <p>C. Wholer</p> <p>D. Lavoiser</p>
4	The formula of nitre is	<p>A. <math>KNO_3</math></p> <p>B. <math>NaNO_3</math></p> <p>C. NaCl</p> <p>D. <math>Na_2CO_3</math></p>
5	The disaccharide present in milk is	<p>A. Sucrose</p> <p>B. Maltose</p> <p>C. Lactose</p> <p>D. Cellobiose</p>
6	When quantity of electricity passed is one faraday then the mass deposited at the electrode is equal to	<p>A. One gm. atomic weight</p> <p>B. One gm. Equivalent weight</p> <p>C. Electrochemical equivalent</p> <p>D. None of the above</p>
7	The bond angle H - O - H in ice is closest to	<p>A. <math>120^\circ</math> , <math>28^\circ</math></p> <p>B. <math>60^\circ</math></p> <p>C. <math>90^\circ</math></p> <p>D. <math>109^\circ</math></p>
8	The equilibrium constant in a reversible chemical reaction at a given temperature	<p>A. Depends on the initial concentration of the reactants</p> <p>B. Depends on the concentration of one of the products at equilibrium</p> <p>C. Does not depend on the initial concentrations of reactants</p> <p>D. Is not characteristic of the reaction</p>
9	Which of the following method is most appropriate for the manufacture of methane?	<p>A. By reduction of <math>CH_2Cl_2</math></p> <p>B. Wurtz reaction</p> <p>C. Liquification of natural gas</p> <p>D. None of these</p>
10	The molal elevation constant is the ratio of the elevation in boiling point to	<p>A. Molarity</p> <p>B. Molality</p> <p>C. Mole fraction of solute</p> <p>D. Mole fraction of solvent</p>
11	Which of the following fluorides of xenon is impossible?	<p>A. <math>XeF_2</math></p> <p>B. <math>XeF_3</math></p> <p>C. <math>XeF_4</math></p> <p>D. <math>XeF_6</math></p>

12	In which of the following elements +1 oxidation state is more stable than +3	A. B B. Al C. Ga D. Ti
13	How many kinds of space lattices are possible in a crystal?	A. 23 B. 7 C. 230 D. 14
14	Maximum number of active hydrogens are present in	A. Acetic-acid B. Glycerol C. Methane D. Methanol
15	The rate of reaction between A and B increases by a factor of 100 when the concentration with respect to A is increased 10 folds the order of reaction w.r.t A is	A. 10 B. 1 C. 4 D. 2
16	Wt. of 112 ml of oxygen at NTP on liquefaction would be	A. 0.32 g B. 0.64 g C. 0.16 g D. 0.96 g
17	When pressure is applied to the equilibrium system Ice Water Which of the following phenomenon will happen?	A. More ice will be formed B. Water will evaporate C. More water will be formed D. Equilibrium will not be formed
18	For the carbylamine reaction we need hot alc.KOH and	A. Any amin and chloroform B. Chloroform and Ag powder C. A primary amine and chloroform D. A mono alkyl amine and trichloromethane
19	Setting of cement is an	A. Exothermic reaction B. Endothermic reaction C. Neither exothermic nor endothermic D. None
20	The reaction/method that does not give an alkane is	A. Catalytic hydrogenation of alkanes B. Wurtz reaction C. Hydrolysis of alkyl magnesium bromide D. Dehydrohalogenation of an alkyl halid.