

## Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	An electrolyte	A. Forms complex ions in solution B. Gives ions only when electricity is passed <b>C. Possesses ions even in solid state</b> D. Gives ions only when dissolved in water
2	Which inorganic precipitate acts as semipermeable membrane?	A. Calcium sulphate B. Barium oxalate C. Nickel phosphate <b>D. Copper ferrocyanide</b>
3	Which of the following has least mass?	A. 2 gram atom of nitrogen <b>B. <math>3 \times 10^{23}</math> atoms of C</b> C. 1 mole of S D. 7.0 g of Ag.
4	The rate of a reaction that does not involve gases does not depend upon	A. Pressure B. Temperature C. Concentration <b>D. Catalyst</b>
5	A cell constant is generally found by measuring the conductivity of aqueous solution of	A. BaCl <sub>2</sub> <b>B. KCl</b> C. NaCl D. MgCl <sub>2</sub>
6	The kinetic theory of gases predicts that total kinetic energy of a gaseous assembly depends on	A. Pressure of the gas <b>B. Temperature of the gas</b> C. Volume of the gas D. Pressure temperature and volume of the gas
7	When electricity is passed through molten $Al_2O_3 + Na_3AlF_6$ and 13.5 gms Al are deposited, the number of faraday must be	A. 0.5 B. 1.0 <b>C. 1.5</b> D. 2.0
8	Natural fertilizer provides potassium in the form of K <sub>2</sub> O (potash)	A. <span style="font-size: 14.4444465637207px;">1.5 kg</span> B. <span style="font-size: 14.4444465637207px;">3 kg</span> <b>C. <span style="font-size: 14.4444465637207px;">4.5 kg</span></b> D. <span style="font-size: 14.4444465637207px;">6.5 kg</span>
9	For preparing an alkane, a concentrated aqueous solution of sodium or potassium salt of saturated carboxylic acid is subjected to	A. Hydrolysis B. Oxidation C. Hydrogenation <b>D. Electrolysis</b>
10	Which of the following geometry is associated with the compound in which the central atom assumes $sp^3 d$ hybridization?	A. Planar B. Pyramidal C. Angular <b>D. Trigonal bipyramidal</b>
11	Inter molecular forces in solid hydrogen are	A. <span style="font-size: 14.4444465637207px;">Covalent forces</span> B. <span style="font-size: 14.4444465637207px;">Van der Waal forces or London dispersion force</span> C. <span style="font-size: 14.4444465637207px;">Hydrogen bonds</span> D. <span style="font-size: 14.4444465637207px;">All of these</span>
		<b>A. More ice will be formed</b>

12	When pressure is applied to the equilibrium system ice water which of the following phenomenon will happen?	<p>B. Water will evaporate C. More water will be formed D. Equilibrium will not be formed</p>
13	For most of the chemical reaction the rate of reaction	<p>A. Increases as the reaction proceeds B. Decreases as the reaction proceeds C. May increases or decreases during the reaction D. Remains constant as the reaction</p>
14	The IUPAC name of the compound having the formula $(CH_3)_3C - CH = CH_2$ is	<p>A. 1, 1 -Dimethyl-3-butene B. 1,1,1-Trimethyl-3-propene C. 3,3,-Dimethyl-1-butene D. 3,3,3-Trimethyl-1-propene</p>
15	If the solvent is inflammable for heating purpose we use	<p>A. Ice bath B. Water bath C. Wire gauze D. Thermostat</p>
16	Natural fertilizer from plants and animals provide nitrogen	<p>A. <span style="font-size: 14.4444465637207px;">1.5 kg</span> B. <span style="font-size: 14.4444465637207px;">3.0 kg</span> C. <span style="font-size: 14.4444465637207px;">4.5 kg</span> D. <span style="font-size: 14.4444465637207px;">6 kg</span></p>
17	An exothermic reaction is one in which the reacting substances	<p>A. Have more energy than the products B. Have less energy than the products C. Have the same energy as the products D. Are at a higher temperature than the products</p>
18	Which of the following belongs to the halogen family?	<p>A. Francium B. Polonium C. Radium D. Astatine</p>
19	The total pressure exerted by a number of non reacting gases is equal to the sum of partial pressure of the gases under the same conditions is known as	<p>A. Boyle's law B. Charle's law C. Avogadro's law D. Dalton's law</p>
20	Hybridization explain the----- of orbitals	<p>A. Type of Bonding B. Shapes C. Shape and Type of bonding D. None of above</p>