

## Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	In crystal structure of sodium chloride the arrangement of $\text{Cl}^-$ ions is	<p>A. Fee          B. Both fee and bcc          C. Bee          D. None of these</p>
2	Propyne on hydrolysis in presence of $\text{H}_2\text{SO}_4$ and $\text{HgSO}_4$ gives	<p>A. Acetaldehyde          B. Actone          C. Formaldehyde          D. None</p>
3	Setting of plaster of paris involves	<p>A. Oxidation with atmospheric oxygen          B. Combination with atmosphere  <math>\text{CO}_{2}</math>          C. Dehydration          D. Hydration to yield another hydrate.</p>
4	The heats evolved in combustion of rhombic and monoclinic sulphur are - 70960 and - 71030 cal $\text{mol}^{-1}$ respectively what will be heat of conversion of rhombic sulphur to monoclinic?	<p>A. 70960 calories          B. 71030 calories          C. -70 calories          D. +70 calories</p>
5	A clathrate may be defined as a	<p>A. Cage compound          B. Liquid crystal          C. Mixture          D. Solid solution</p>
6	The ratio of the ionization energy of H and $\text{Be}^{3+}$ is	<p>A. 1 : 1          B. 1 : 3          C. 1 : 9          D. 1 : 16</p>
7	Which of the following geometry is associated with the compound in which the central atom assumes $\text{sp}^3\text{d}$ hybridization?	<p>A. Planar          B. Pyramidal          C. Angular          D. Trigonal bipyramidal</p>
8	Ammonia gas used directly as a fertilizer is injected into the soil at a depth of about	<p>A. &lt;span style="font-size: 14.4444465637207px;"&gt;Two inches          B. &lt;span style="font-size: 14.4444465637207px;"&gt;Three inches          C. &lt;span style="font-size: 14.4444465637207px;"&gt;Five inches          D. &lt;span style="font-size: 14.4444465637207px;"&gt;Six inches</p>
9	Which inorganic precipitate acts as semipermeable membrane?	<p>A. Calcium sulphate          B. Barium oxalate          C. Nickel phosphate          D. Copper ferrocyanide</p>
10	When pressure is applied to the equilibrium system Ice Water Which of the following phenomenon will happen?	<p>A. More ice will be formed          B. Water will evaporate          C. More water will be formed          D. Equilibrium will not be formed</p>
11	By using the fluted filter paper rate of filtration is	<p>A. Increased          B. Decreased          C. Filtration is constant          D. Having no effect</p>
12	In Friedal-Craft's alkylation besides $\text{AlCl}_3$ the other reactants are	<p>A. &lt;span style="font-size: 14.4444465637207px;"&gt;C<sub>6</sub>H<sub>6</sub> + NH<sub>3</sub>          B. &lt;span style="font-size: 14.4444465637207px;"&gt;C<sub>6</sub>H<sub>6</sub> + CH<sub>4</sub>          C. &lt;span style="font-size: 14.4444465637207px;"&gt;C<sub>6</sub>H<sub>6</sub> + CH<sub>3</sub>Cl          D. &lt;span style="font-size: 14.4444465637207px;"&gt;C<sub>6</sub>H<sub>6</sub> + CH<sub>3</sub>COCl</p>

13	Which of the following is a colligative property?	A. Melting point B. Osmotic pressure C. Freezing point D. Sublimation temperature
14	Reaction of acids with alcohols is also known as	A. Esterification B. Saponification C. Alkalization D. None
15	Which of the following method is most appropriate for the manufacture of methane?	A. By reduction of CH <sub>2</sub> Cl <sub>2</sub> B. Wurtz reaction C. Liquification of natural gas D. None of these
16	Atmosphere of big/metropolitan cities is polluted most by	A. Automobile exhausts B. Pesticide residue C. Household waste D. Radio-active fall out
17	The number of atoms contained in 11.2 L of SO <sub>2</sub> at S.T.P are	A. $3/2 \times 6.02 \times 10^{23}$ B. $2 \times 6.02 \times 10^{23}$ C. $6.02 \times 10^{23}$ D. $4 \times 6.02 \times 10^{23}$
18	Which of the following has linear shape?	A. SP B. SP <sup>2</sup> C. SP <sup>3</sup> D. None of the above
19	The carbon atoms in calcium carbide are held by	A. Ionic bonds B. 2 sigma bonds C. 2 covalent one co-ordinate bond D. $2\pi$ and one $\sigma$ bond
20	The rate at which a substance reacts depends on its	A. Atomic weight B. Equivalent weight C. Molecular weight D. Active mass