

## Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Which one of the following compounds does not exist?	A. $\text{NCl}_5$ B. $\text{AsF}_5$ C. $\text{SbCl}_5$ D. $\text{PF}_5$
2	Hybridization explain the----- of orbitals	A. Type of Bonding B. Shapes C. Shape and Type of bonding D. None of above
3	Bleaching action of bleaching powder is due to the liberation of	A. $\text{O}_2$ B. $\text{OCl}_2$ C. $\text{Cl}_2$ D. $\text{Cl}$
4	The IUPAC name of the compound having the formula $(\text{CH}_3)_3\text{C}-\text{CH}=\text{CH}_2$ is	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
5	The osmotic pressure of solution increases if	A. Temperature is decreased B. Solution constant is increased C. Number of solute molecules are increased D. Volume is increased
6	Which of the following geometry is associated with the compound in which the central atom assumes $\text{sp}^3\text{d}$ hybridization?	A. Planar B. Pyramidal C. Angular D. Trigonal bipyramidal
7	Which of the following process is used to separate insoluble particles from liquids?	A. Separation B. Filtration C. Crystallization D. Condensation
8	Bromine is obtained on a commercial scale from	A. Caliche B. Carnallite C. Common satl D. Cryolite
9	The valence orbital configuration of an element with atomic number 23 is	A. $3d^5$ B. $3d^3 4s^3$ C. $3d^3 4s^1$ D. $3d^3 4s^2 4p^1$
10	Cheif air pollutant which is likely to deplete ozone layer	A. Sulphure dioxide B. Carbon dioxide C. Carbon dioxide D. Nitrogen oxides and chloro fluorocarbons
11	Which is the most volatile compound?	A. HI B. HCl C. HBr D. HF
		A. Calcium sulphate

12	Which inorganic precipitate acts as semipermeable membrane?	B. Barium oxalate C. Nickel phosphate D. Copper ferrocyanide
13	Most common reactions of benzene and its derivatives are	A. Electrophilic addition reactions B. Electrophilic substitution reactions. C. Nucleophilic addition reactions D. Nucleophilic substitution reactions
14	Propyne on hydrolysis in presence of $H_2SO_4$ and $HgSO_4$ gives	A. Acetaldehyde B. Actone C. Formaldehyde D. None
15	A zero order reaction is one whose rate is independent of	A. Temperature of the reaction B. The concentration of the reactants C. The concentration of the products D. The material of the vessel in which the reaction is carried out
16	Which of the following value of $\Delta H^\circ$ represent that the product is least stable?	A. $-94.0 \text{ kcal mol}^{-1}$ B. $-231.6$ C. $+21.4$ D. $+64.8$
17	Inert pair effect plays an important role in case of	A. F B. Al C. Si D. Tl
18	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
19	$\Delta H_{\text{Neutralisation}}$ is always	A. Positive B. Negative C. Zero D. Positive or negative
20	Which species represents the electrophile in aromatic nitrotaion?	A. $NO_2$ B. $NO_2^+$ C. $NO_2^-$ D. $NO$