

## Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	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 D. Trigonal bipyramidal
2	Gooch crucible used to filter the solution of	A. $H_2SO_4$ B. HCl C. $KMnO_4$ D. Both B & C
3	Hess's law deals with	A. Changes in heat or reaction B. Rate of reaction C. Equilibrium constant D. Influence of pressure on volume of a gas
4	The number of oxygen atoms in 4.4 g of $CO_2$ is approximately	A. $1.2 \times 10^{23}$ B. $6 \times 10^{22}$ C. $6 \times 10^{23}$ D. $12 \times 10^{23}$
5	The equilibrium $Cr_2O_7^{2-} \rightleftharpoons 2CrO_4^{2-}$ is shifted to right in	A. An acidic medium B. A basic medium C. A neutral medium D. It does not exist
6	The wire in the flash bulbs is made up of	A. Mg B. Ba C. Cu D. Ag
7	Which of the following is a molecular disease?	A. Allergy B. Cancer C. German measles D. Sickle cell anemia
8	Heating a mixture of sodium benzoate and soda lime gives	A. Methane B. Benzene C. Sodium benzene D. Calcium benzoate
9	The weight of 11.2 liters of $CO_2$ at S.T.P. would be	A. 88 g B. 44 g C. 32 g D. 22 g
10	Which of the following mineral does not contain Al?	A. <span style="font-size: 14.4444465637207px;">Cryolite</span> B. <span style="font-size: 14.4444465637207px;">Mica</span> C. <span style="font-size: 14.4444465637207px;">Feldspar</span> D. <span style="font-size: 14.4444465637207px;">Fluorspar</span>
11	The essential component of organic compound is	A. O B. C C. P D. N
12	The following has zero valency	A. Na B. Be C. Al D. Kr
13	Water ( $H_2O$ ) is liquid while hydrogen sulphide ( $H_2S$ ) is a gas because	A. Water has higher molecular weight B. Hydrogen sulphide is a weak acid C. Sulphur has high electronegativity than oxygen D. Water molecules associate through hydrogen bonding.
14	Potassium crystallizes with a	A. Orthogonal lattice B. Cubic lattice C. Triclinic D. Hexagonal lattice

15	Which one of the following has the lowest boiling point?	A. <span style="font-size: 14.44444465637207px;">B</span> B. <span style="font-size: 14.44444465637207px;">Al</span> C. <span style="font-size: 14.44444465637207px;">Ga</span> D. <span style="font-size: 14.44444465637207px;">Ti</span>
16	Which of the following cannot be produced by acidic dehydration of alcohols?	A. Ethers B. Aldehyde C. Alkyl Hydrogen sulphate D. Alkene
17	The effect of increasing the pressure on the following equilibrium $2A + 3B \rightleftharpoons 3A + 2B$ is	A. Forward reaction is favoured B. Backward reaction is favoured C. No effect D. None of the above
18	Mark the smallest atom	A. F B. Cl C. Br D. I
19	The rate of a reaction can be increased in general by all the factors except by	A. Using a catalyst B. Increasing temperature C. Increasing the activation energy D. Increasing the conc. of reactants
20	Which of the following is different from the other three oxides?	A. MgO B. SnO C. ZnO D. $Cr_2O_3$