

## Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Which of the following species participate in sulphonation of benzene ring?	A. $\text{H}_{\substack{2}}\text{SO}_{\substack{4}}$ B. $\text{HSO}_{\substack{3}}$ C. $\text{SO}_{\substack{3}}$ D. $\text{SO}_{\substack{2}}$
2	Which of the following mineral does not contain Al?	A. Cryolite B. Mica C. Feldspar D. Fluorspar
3	If $N_A$ is Avogadro's number then number of valence electrons in 4.2 g of nitride ions $\text{N}^{3-}$ is	A. $2.4 N_A$ B. $4.2 N_A$ C. $1.6 N_A$ D. $3.2 N_A$
4	Which of the following imparts violet colouration to the non-luminous flame of Bunsen burner?	A. $\text{NaCl}$ B. $\text{BaCl}_2$ C. $\text{CaCl}_2$ D. $\text{KCl}$
5	The ratio of close packed atoms to tetrahedral holes in cubic close packing is	A. 1 : 1 B. 1 : 2 C. 1 : 3 D. 2 : 1
6	Detergents are	A. Synthetic products B. Natural products C. Both A and B D. None of the above
7	The order of reactivity of halogens in aliphatic substitution reactions is	A. $\text{Br} > \text{Cl} > \text{F}$ B. $\text{Cl} > \text{Br} > \text{F}$ C. $\text{Cl}_2 > \text{Br}_2$ D. $\text{F} > \text{Br} > \text{Cl}$
8	Which of the following with aqueous KOH will give acetaldehyde?	A. 1,2-Dichloroethane B. 1,1-Dichloroethane C. Chloroacetic acid D. Ethyl chloride
9	Which is the most volatile compound?	A. HI B. HCl C. HBr D. HF
10	Which of the following process is used to separate insoluble particles from liquids?	A. Separation B. Filtration C. Crystallization D. Condensation
11	According to MO Theory the species $\text{O}_2^+$ possesses	A. Bond order of 2.5 B. Three unpaired electrons C. Diamagnetic character D. Stability lower than $\text{O}_2$
12	Crystal can be classified into basic crystal habits	A. 7 B. 4 C. 14 D. 3
13	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

14	Which of the following cannot be produced by acidic dehydration of alcohols?	A. Ethers B. Aldehyde C. Alkyl Hydrogen sulphate D. Alkene
15	Which of the following fluorides of xenon in impossible?	A. $\text{XeF}_2$ B. $\text{XeF}_3$ C. $\text{XeF}_4$ D. $\text{XeF}_6$
16	What quantity of limestone ( $\text{CaCO}_3$ ) on heating will give 56 kg of $\text{CaO}$ ?	A. 1000 kg B. 56 kg C. 44 kg D. 100kg
17	Which inorganic precipitate acts as semipermeable membrane?	A. Calcium sulphate B. Barium oxalate C. Nickel phosphate D. Copper ferrocyanide
18	The addition of HBr is easiest with	A. $\text{CH}_2 = \text{CHCl}$ B. $\text{ClCH} = \text{CHCl}$ C. $\text{CH}_3 - \text{CH} = \text{CH}_2$ D. <span style="font-size: 14.4444465637207px;">(CH<sub>3</sub>)<sub>2</sub>C = CH<sub>2</sub></span>
19	Which one of the following elements occurs free in nature?	A. N B. P C. As D. Sb
20	Bragg's law is given by equation	A. $n \lambda = 2 \sin \theta$ B. $n \lambda = 2 d \sin \theta$ C. $2n\lambda = d \sin \theta$ D. $n\lambda = 1/2 d \sin \theta$