

Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Among alkali metal salts, the lithium salts are the poorest conductors of electricity in aqueous solution because of	<p>A. Easy diffusion of Li^+ ions</p> <p>B. Lower ability of Li^+ ions to polarize water molecules</p> <p>C. Lowest charge to radius ratio</p> <p>D. Higher degree of hydration of Li^+ ions.</p>
2	Ozone is not	<p>A. An allotrope</p> <p>B. A powerful oxidizing agent</p> <p>C. Paramagnetic</p> <p>D. A bent molecule</p>
3	Most common reactions of benzene and its derivatives are	<p>A. Electrophilic addition reactions</p> <p>B. Electrophilic substitution reactions.</p> <p>C. Nucleophilic addition reactions</p> <p>D. Nucleophilic substitution reactions</p>
4	Which one is not a pollutant normally?	<p>A. Hydrocarbons</p> <p>B. Carbon dioxide</p> <p>C. Carbon monoxide</p> <p>D. Sulphur dioxide</p>
5	Evaporation of water is	<p>A. An exothermic change</p> <p>B. An endothermic change</p> <p>C. A process where no heat changes occur</p> <p>D. A process accompanied by chemical</p>
6	Calcium acetate when dry distilled gives	<p>A. Formaldehyde</p> <p>B. Acetaldehyde</p> <p>C. Acetone</p> <p>D. Acetic anhydride</p>
7	The addition of HBr is easiest with	<p>A. $\text{CH}_2 = \text{CHCl}$</p> <p>B. $\text{ClCH} = \text{CHCl}$</p> <p>C. $\text{CH}_3 - \text{CH} = \text{CH}_2$</p> <p>D. $(\text{CH}_3)_2\text{C} = \text{CH}_2$</p>
8	Bleaching action of bleaching powder is due to the liberation of	<p>A. O_2</p> <p>B. OCl^-</p> <p>C. Cl_2</p> <p>D. Cl^-</p>
9	The osmotic pressure of solution increases if	<p>A. Temperature is decreased</p> <p>B. Solution constant is increased</p> <p>C. Number of solute molecules are increased</p> <p>D. Volume is increased</p>
10	BiCl_3 on hydrolysis forms a white precipitate of	<p>A. Bismuthio acid</p> <p>B. Bismuth oxychloride</p> <p>C. Bismuth pentachloride</p> <p>D. Bismuth hydroxide</p>
11	Bragg's law is given by equation	<p>A. $n\lambda = 2d \sin\theta$</p> <p>B. $n\lambda = 2d \sin\theta$</p> <p>C. $2n\lambda = d \sin\theta$</p> <p>D. $n\lambda = 1/2 d \sin\theta$</p>
12	Natural fertilizer provides potassium in the form of K_2O (potash)	<p>A. 1.5 kg</p> <p>B. 3 kg</p> <p>C. 4.5 kg</p> <p>D. 6.5 kg</p>

13	Which of the following is different from the other three oxides?	<p>A. MgO B. SnO C. ZnO D. Cr_2O_3</p>
14	What quantity of limestone (CaCO_3) on heating will give 56 kg of CaO?	<p>A. 1000 kg B. 56 kg C. 44 kg D. 100kg</p>
15	Chile salt petre is	<p>A. NaNO_3 B. Na_2SO_4 C. KNO_3 D. $\text{Na}_2\text{S}_2\text{O}_3$</p>
16	In a reversible chemical reaction having two reactants in equilibrium if the concentration of the reactants are doubled then the equilibrium constant will	<p>A. Also be doubled B. Be halved C. Becomes one fourth D. Remains the same</p>
17	At 500 K the equilibrium constant for reaction $\text{cis-C}_2\text{H}_2\text{Cl}_2 \rightleftharpoons \text{trans-C}_2\text{H}_2\text{Cl}_2$ is 0.6. At the same temperature the equilibrium constant for the reaction $\text{trans-C}_2\text{H}_2\text{Cl}_2 \rightleftharpoons \text{cis-C}_2\text{H}_2\text{Cl}_2$ will be	<p>A. 0.60 B. 1.67 C. 0.66 D. 2.6</p>
18	Which of the following substances is used as an antiknock compound?	<p>A. Tetraethyl lead B. Lead tetrachloride C. Lead acetate D. Ethyl acetate</p>
19	Ionic solids with defects contain	<p>A. Equal number of cation and anion vacancies B. Interstitial anions and anion vacancies C. Cation vacancies only D. Cation vacancies and interstitial cations</p>
20	The pore size of the filter paper depends upon	<p>A. Nature of the medium B. Temperature of the medium C. Size of the particles D. Mass of the particles</p>