

Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	With increasing principle quantum number the energy difference between adjacent energy levels in H atom	<p>A. Decreases</p> <p>B. Increases</p> <p>C. Remains constant</p> <p>D. Decreases for low value of Z and increases for higher value of Z.</p>
2	In which molecule carbon atom is sp^2 hybridized	<p>A. CH_4</p> <p>B. C_2H_4</p> <p>C. C_2H_2</p> <p>D. None of the above</p>
3	Which metal is protected by a layer of its own oxide?	<p>A. Al</p> <p>B. Ag</p> <p>C. Au</p> <p>D. Fe</p>
4	Which of the following statement regarding catalyst is not true?	<p>A. A catalyst remains unchanged in composition and quantity at the end of the reaction</p> <p>B. A catalyst can initiate a reaction</p> <p>C. A catalyst dose not alter the equilibrium in a reversible reaction</p> <p>D. Catalysts are sometimes very specific in respect of reaction</p>
5	Which of the following metal exhibits more than one oxidation?	<p>A. Na</p> <p>B. Mg</p> <p>C. Fe</p> <p>D. Al</p>
6	All the naturally occurring processes proceed spontaneously in a direction which lead to	<p>A. Decrease of entropy</p> <p>B. Increase of enthalpy</p> <p>C. Increase of free energy</p> <p>D. Decrease of free energy</p>
7	The order of reactivity of halogens in aliphatic substitution reactions is	<p>A. $Br_2 > Cl_2 > F_2$</p> <p>B. $Cl_2 > Br_2 > F_2$</p> <p>C. $Cl_2 > Br_2 > F_2$</p> <p>D. $F_2 > Br_2 > Cl_2$</p>
8	The ratio of the ionization energy of H and Be^{3+} is	<p>A. 1 : 1</p> <p>B. 1 : 3</p> <p>C. 1 : 9</p> <p>D. 1 : 16</p>
9	Which one is the property of an ideal solvent	<p>A. Should be expensive</p> <p>B. It should react chemically with the solute</p> <p>C. Impurities should crystallize along with the solute</p> <p>D. Should be safe to use</p>
10	The substance used as a smoke screen in warfare is	<p>A. $SiCl_4$</p> <p>B. PH_3</p> <p>C. PCl_5</p> <p>D. Acetylene</p>
11	The reaction/method that does not give an alkane is	<p>A. Catalytic hydrogenation of alkanes</p> <p>B. Wurtz reaction</p> <p>C. Hydrolysis of alkyl magnesium bromide</p> <p>D. Dehydrohalogenation of an alkyl halid.</p>
12	Bragg's law is given by equation	<p>A. $n \lambda = 2 d \sin \theta$</p> <p>B. $n \lambda = 2 d \sin \theta$</p> <p>C. $2n\lambda = d \sin \theta$</p> <p>D. $n\lambda = 1/2 d \sin \theta$</p>
13	In crystal structure of sodium chloride the arrangement of Cl^- ions is	<p>A. Fee</p> <p>B. Both fee and bcc</p> <p>C. Bee</p> <p>D. None of these</p>

14	Mark the smallest atom	B. Cl C. Br D. I
15	Leblanc process is employed in the manufacture of	A. Baking soda B. Washing soda C. Potash D. Plaster of paris
16	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
17	Octane number is zero for	A. n-Heptane B. Isooctane C. n-Hexane D. Isoheptane
18	For most of the chemical reaction the rate of reaction	A. Increases as the reaction proceeds B. Decreases as the reaction proceeds C. May increases or decreases during the reaction D. Remains constant as the reaction
19	The last orbit of argon would have electrons	A. 8 B. 18 C. 2 D. 6
20	When sulphur is boiled with Na_2SO_3 solution the compound formed is	A. Sodium sulphides B. Sodium sulphates C. Sodium persulphate D. Sodium thiosulphate