

Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	For most of the chemical reaction the rate of reaction	<p>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</p>
2	When KClO_3 is heated it decomposes into KCl and O_2 if some MnO_2 is added the reaction goes much faster because	<p>A. MnO_2 decomposes to give O_2 B. MnO_2 provides heat by reacting C. Better contact is provided by MnO_2 D. MnO_2 acts as a catalyst</p>
3	How many moles of Helium gas occupy 22.4 L at 0°C at 1 atm. Pressure?	<p>A. 0.11 B. 0.90 C. 1.0 D. 1.11</p>
4	Which of the following value of ΔH_f° represent that the product is least stable?	<p>A. $-94.0 \text{ kcal mol}^{-1}$ B. $-231.6 \text{ kcal mol}^{-1}$ C. $+21.4 \text{ kcal mol}^{-1}$ D. $+64.8 \text{ kcal mol}^{-1}$</p>
5	The number of unpaired electrons in the P-subshell of oxygen atom	<p>A. 1 B. 2 C. 3 D. 4</p>
6	At room temperature formaldehyde is	<p>A. Gas B. Liquid C. Solid D. None of the above</p>
7	The total number of protons in 10 g of calcium carbonate is ($N_0 = 6.023 \times 10^{23}$)	<p>A. 1.5057×10^{24} B. 2.0478×10^{24} C. 3.0115×10^{24} D. 4.0956×10^{24}</p>
8	Bleaching action of bleaching powder is due to the liberation of	<p>A. O_2 B. OCl^- C. Cl_2 D. Cl^-</p>
9	Which of the following has greatest reducing power?	<p>A. HI B. HBr C. HCl D. Hl</p>
10	The number of atoms contained in 11.2 L of SO_2 at S.T.P are	<p>A. $\frac{3}{2} \times 6.02 \times 10^{23}$ B. $2 \times 6.02 \times 10^{23}$ C. 6.02×10^{23} D. $4 \times 6.02 \times 10^{23}$</p>
11	Reaction of ethylamine with chloroform in alcoholic KOH produces	<p>A. CH_3OH B. CH_3NC C. $\text{C}_2\text{H}_5\text{NC}$ D. $\text{C}_2\text{H}_5\text{CN}$</p>

12	The mass of the neutron is of the order of	<p>14.44444465637207px;">&nbsp;kg C. 10 <sup>-26</sup>&nbsp;kg D. 10 <sup>-27</sup>&nbsp;kg</p>
13	Wt. of 112 ml of oxygen at NTP on liquefaction would be	<p>A. 0.32 g B. 0.64 g C. 0.16 g D. 0.96 g</p>
14	Sodium metal cannot be stored under	<p>A. Benzene B. Kerosene oil C. Alcohol D. Toluene</p>
15	Which of the following metal exhibits more than one oxidation?	<p>A. Na B. Mg C. Fe D. Al</p>
16	Setting of cement is an	<p>A. Exothermic reaction B. Endothermic reaction C. Neither exothermic nor endothermic D. None</p>
17	Carbon atom holding halogen in aryl halides is	<p>A. Sp<sup>2</sup>-hybridised B. Sp <sup>3</sup>- hybridised C. Sp- hybridised D. Sp <sup>3</sup>&nbsp;</sup>d - hybridised</p>
18	SO ₂ and NO ₂ pollution by increasing	<p>A. Alkalinity B. Acidity C. Neutrality D. Buffer action</p>
19	The number of oxygen atoms in 4.4 g of CO ₂ is approximately	<p>A. 1.2×10^{23} B. 6×10^{22} C. 6×10^{23} D. 12×10^{23}</p>
20	For the reaction 2A(g) + B(g) \rightleftharpoons 3C(g) + D(g) two moles each of A and B were taken into a flask The following must always be true when the system attained equilibrium	<p>A. [A] = [B] B. [A] &lt; [B] C. [B] = [C] D. [A] &gt; [B]</p>