

## Chemistry General Science Test Hard Mode

| Sr | Questions  | Answers Choice   |
|----|--|--|
| 1  | The symbol of the element whose atoms have the outer most electronic configuration $2s^2 2p^3$ is  | A. N<br>B. Li<br>C. P<br>D. Na   |
| 2  | Which of the following elements is most electronegative?   | A. Oxygen<br>B. Chlorine<br>C. Nitrogen<br>D. Fluorine   |
| 3  | In cold countries ethylene glycol is added to water in radiators of cars during winter. It result in   | A. Lowering in b.pt.<br>B. Reducing viscosity<br>C. Reducing specific heat<br>D. Lowering in freezing pt.  |
| 4  | Acetic anhydride is obtained from acetyl chloride by the reaction of   | A. <span style="font-size: 14.4444465637207px;">P&lt;/span&gt;&lt;sub&gt;2&lt;/sub&gt;&lt;span style="font-size: 14.4444465637207px;"&gt;O&lt;/span&gt;&lt;sub&gt;5&lt;/sub&gt;<br/>           B. <span style="font-size: 14.4444465637207px;">H&lt;/span&gt;&lt;sub&gt;2&lt;/sub&gt;&lt;span style="font-size: 14.4444465637207px;"&gt;SO&lt;/span&gt;&lt;sub&gt;4&lt;/sub&gt;<br/>           C. <span style="font-size: 14.4444465637207px;">CH&lt;/span&gt;&lt;sub&gt;3&lt;/sub&gt;&lt;span style="font-size: 14.4444465637207px;"&gt;COONa&lt;/span&gt;<br/>           D. <span style="font-size: 14.4444465637207px;">CH&lt;/span&gt;&lt;sub&gt;3&lt;/sub&gt;&lt;span style="font-size: 14.4444465637207px;"&gt;COCH&lt;/span&gt;&lt;sub&gt;3&lt;/sub&gt;         </span> </span></span></span> |
| 5  | The osmotic pressure of solution increases if  | A. Temperature is decreased<br>B. Solution constant is increased<br>C. Number of solute molecules are increased<br>D. Volume is increased  |
| 6  | In a reversible chemical reaction having two reactants in equilibrium if the concentration of the reactants are doubled then the equilibrium constant will | A. Also be doubled<br>B. Be halved<br>C. Becomes one fourth<br>D. Remains the same   |
| 7  | Benzene + Ozone $\rightarrow$ Y. in this sequence Y is   | A. Benzene monoozonide<br>B. Benzene diazonide<br>C. Benzene triozonide<br>D. Succinic acid  |
| 8  | The order of reactivity of halogens in aliphatic substitution reactions is   | A. Br > Cl > F<br>B. Cl > Br > F<br>C. Cl > Br > Cl<br>D. F > Br > Cl  |
| 9  | Which of the following mineral does not contain Al?  | A. <span style="font-size: 14.4444465637207px;">Cryolite&lt;/span&gt;<br/>           B. <span style="font-size: 14.4444465637207px;">Mica&lt;/span&gt;<br/>           C. <span style="font-size: 14.4444465637207px;">Feldspar&lt;/span&gt;<br/>           D. <span style="font-size: 14.4444465637207px;">Fluorspar&lt;/span&gt;         </span> </span></span></span>  |
| 10 | Which of the following is different from the other three oxides?   | A. MgO<br>B. SnO<br>C. ZnO<br>D. Cr <sub>2</sub> O <sub>3</sub>  |
| 11 | Which is the most volatile compound?   | A. HI<br>B. HCl<br>C. HBr<br>D. HF   |

|    |  |   |
|----|--|---|
| 12 | If the solvent is inflammable for heating purpose we use   | B. Water bath<br>C. Wire gauze<br>D. Thermostat   |
| 13 | At 500 K the equilibrium constant for reaction cis-C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> trans-C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> is 0.6. At the same temperature the equilibrium constant for the reaction trans-C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> cis-C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> will be | A. 0.60<br>B. 1.67<br>C. 0.66<br>D. 2.6   |
| 14 | For the reaction<br>2A(g) + B(g) 3C(g) + D(g)<br>two moles each of A and B were taken into a flask. The following must always be true when the system attained equilibrium   | A. [A] = [B]<br>B. [A] < [B]<br>C. [B] = [C]<br>D. [A] > [B]  |
| 15 | In the manufacture of iron from haematite, limestone is added to act as.   | A. Flux<br>B. A reducing<br>C. Slag<br>D. An oxidizing agent.   |
| 16 | Chile salt petre is  | A. NaNO <sub>3</sub><br>B. Na <sub>2</sub> SO <sub>4</sub><br>C. KNO <sub>3</sub><br>D. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> |
| 17 | Which of the following cannot be produced by acidic dehydration of alcohols?   | A. Ethers<br>B. Aldehyde<br>C. Alkyl Hydrogen sulphate<br>D. Alkene   |
| 18 | Which of the following has greatest tendency to lose electron?   | A. F<br>B. Fr<br>C. S<br>D. Be  |
| 19 | Saturated solution of NaCl on heating becomes  | A. Super saturated<br>B. Unsaturated<br>C. Remains saturated<br>D. None   |
| 20 | Which of the following belongs to the halogen family?  | A. Francium<br>B. Polonium<br>C. Radium<br>D. Astatine  |