

## Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	The dimension of rate constant of a second order reaction involves	<p>A. Neither time nor concentration            B. Only time  <b>C. Time and concentration</b>            D. Time and square of concentration</p>
2	Calcium cyanamide on treatment with steam under pressure gives $\text{NH}_3$ and	<p>A. <span style="font-size: 14.44444465637207px;">Calcium carbonate</span>            B. <span style="font-size: 14.44444465637207px;">Calcium hydroxide</span>  <b>C. <span style="font-size: 14.44444465637207px;">Calcium oxide</span></b>            D. <span style="font-size: 14.44444465637207px;">Calcium bicarbonate</span></p>
3	Which of the following species participate in sulphonation of benzene ring?	<p>A. <math>\text{H}_2\text{SO}_4</math>            B. <math>\text{HSO}_3^-</math>  <b>C. <math>\text{SO}_3</math></b>            D. <math>\text{SO}_2</math></p>
4	The halide which is not hydrolysed is	<p>A. <math>\text{SiCl}_4</math>            B. <math>\text{SiF}_4</math>  <b>C. <math>\text{CCl}_4</math></b>            D. <math>\text{PbCl}_4</math></p>
5	Which of the substances Na, Hg, S Pt and graphic can be used as electrodes in electrolytic cells having aqueous solution?	<p>A. Na, Pt and graphite            B. Na and Hg  <b>C. Pt and graphite only</b>            D. Na and S only</p>
6	Which of the following represents elements in order of increasing atomic size?	<p>A. I, Br, Cl            B. Na, Mg, C            C. C, N, O  <b>D. Li, Na, K</b></p>
7	Ammonia gas used directly as a fertilizer is injected into the soil at a depth of about	<p>A. <span style="font-size: 14.44444465637207px;">Two inches</span>            B. <span style="font-size: 14.44444465637207px;">Three inches</span>            C. <span style="font-size: 14.44444465637207px;">Five inches</span>  <b>D. <span style="font-size: 14.44444465637207px;">Six inches</span></b></p>
8	Among alkali metal salts, the lithium salts are the poorest conductors of electricity in aqueous solution because of	<p>A. Easy diffusion of <math>\text{Li}^+</math> ions            B. Lower ability of <math>\text{Li}^+</math> ions to polarize water molecules            C. Lowest charge to radius ratio  <b>D. Higher degree of hydration of <math>\text{Li}^+</math> ions.</b></p>
9	Wholer prepared ures from	<p>A. Ammonia  <b>B. <math>\text{NH}_4\text{CNO}</math></b>            C. <math>\text{NH}_3</math>            D. uric acid</p>
10	Which of the following fluorides does not exist?	<p>A. <math>\text{NF}_5</math>  <b>B. <math>\text{PF}_5</math></b>            C. <math>\text{AsF}_5</math>            D. <math>\text{SbF}_5</math></p>
11	The unit of rate constant for a zero order reaction is	<p>A. <math>\text{Liter sec}^{-1}</math>            B. <math>\text{Liter} \cdot \text{mol}^{-1} \cdot \text{sec}^{-1}</math>            C. <math>\text{Mol liter}^{-1} \cdot \text{sec}^{-1}</math>  <b>D. <math>\text{Mol liter}^{-1} \cdot \text{sec}^{-1}</math></b></p>

C. Mol <sup>-1</sup> cm<sup>-1</sup> sec  
D. Mol <sup>-1</sup> cm<sup>-1</sup> sec

12	Which of the following elements is most electronegative?	A. Oxygen B. Chlorine C. Nitrogen D. Fluorine
13	For preparing an alkane, a concentrated aqueous solution of sodium or potassium salt of saturated carboxylic acid is subjected to	A. Hydrolysis B. Oxidation C. Hydrogenation D. Electrolysis
14	In which molecule carbon atom is sp <sup>2</sup> hybridized	A. CH <sub>4</sub> B. C <sub>2</sub> H <sub>4</sub> C. C <sub>2</sub> H <sub>2</sub> D. None of the above
15	Which of the following alcohols cannot be produced by treatment of aldehydes or ketones with NaBH <sub>4</sub> or LiAlH <sub>4</sub> ?	A. <span style="font-size: 14.44444465637207px;">1-Propanol</span> B. <span style="font-size: 14.44444465637207px;">2-Propanol</span> C. <span style="font-size: 14.44444465637207px;">2-Methyl-2-propanol</span> D. <span style="font-size: 14.44444465637207px;">Ethanol</span>
16	Which of the following is directly related to Qualitative analysis?	A. Identification B. Separation C. Measurement D. Calculation
17	Benzene is obtained by fractional distillation of	A. Heavy oil B. Anthracene oil C. Middle oil D. Light oil
18	A solution of sodium sulphate was electrolysed using some inert electrodes. The products at the electrodes are	A. O <sub>2</sub> , H <sub>2</sub> B. <span style="font-size: 14.44444465637207px;">O<sub>2</sub></span> , <span style="font-size: 14.44444465637207px;">Na<sub>2</sub>S</span> C. <span style="font-size: 14.44444465637207px;">O<sub>2</sub></span> , <span style="font-size: 14.44444465637207px;">SO<sub>2</sub></span> D. <span style="font-size: 14.44444465637207px;">O<sub>2</sub></span> , <span style="font-size: 14.44444465637207px;">S</span> , <span style="font-size: 14.44444465637207px;">O<sub>2</sub></span> <sup>-</sup> <sub>8</sub>
19	Which of the following process is used to separate insoluble particles from liquids?	A. Separation B. Filtration C. Crystallization D. Condensation
20	Dilute hydrochloric acid solution cannot be concentrated by boiling beyond	A. 11% B. 33% C. 44% D. 22%