

## Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Which inorganic precipitate acts as semipermeable membrane?	A. Calcium sulphate B. Barium oxalate C. Nickel phosphate D. Copper ferrocyanide
2	Which is true for an element R present in group 13 of the periodic table?	A. It is a gas at room temperature B. It has oxidation state of +4 C. It forms $R^{2+}O^{3-}$ D. It forms $RX_2$
3	Fertilizer are made by	A. Nature only B. Artificial methods only C. Both artificial and natural methods D. None of the above
4	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
5	Vital force theory was rejected by	A. Berzelius B. Kolbe C. Wholer D. Lavoiser
6	Salol is prepared from	A. Salicylic acid and phenol B. Salicylic acid and methyl alcohol C. Both D. None
7	The percentage of oxygen in NaOH is	A. 40 B. 60 C. 8 D. 10
8	Natural fertilizer from plants and animals provide nitrogen	A. 1.5 kg B. 3.0 kg C. 4.5 kg D. 6 kg
9	Toluene can be oxidized to benzoic acid by	A. $KMnO_4$ (alk) B. $K_2Cr_2O_7$ (acidic) C. Both D. None
10	The maximum number of electrons in a subshell for which $l = 3$ is	A. 14 B. 10 C. 8 D. 4
11	Which of the following is not present in RNA?	A. Uracil B. Thymine C. Ribose D. Phosphate
12	Octane number is zero for	A. n-Heptane B. Isooctane C. n-Hexane D. Isoheptane
13	Potassium crystallizes with a	A. Orthogonal lattice B. Cubic lattice C. Triclinic D. Ortho rhombic lattice

A.  $Sc^{3+}$   
B. .....

14	Which of the following transition metal ions will have definite value of magnetic moment?	<p>14.4444446563/20/px;"&gt;   I&lt;/span&gt;  <sup>3+</sup></p> <p>C. Cu<sup>+</sup></p> <p>D. Zn<sup>2+</sup></p>
15	A clathrate may be defined as a	<p>A. Cage compound</p> <p>B. Liquid crystal</p> <p>C. Mixture</p> <p>D. Solid solution</p>
16	The weight of 11.2 liters of CO <sub>2</sub> at S.T.P. would be	<p>A. 88 g</p> <p>B. 44 g</p> <p>C. 32 g</p> <p>D. 22 g</p>
17	Dehydration of glycerol give	<p>A. Propane</p> <p>B. Propene</p> <p>C. Acrolein</p> <p>D. Benzene</p>
18	The number of atoms contained in 11.2 L of SO <sub>2</sub> at S.T.P are	<p>A. <math>\frac{3}{2} \times 6.02 \times 10^{23}</math></p> <p>B. <math>2 \times 6.02 \times 10^{23}</math></p> <p>C. <math>6.02 \times 10^{23}</math></p> <p>D. <math>4 \times 6.02 \times 10^{23}</math></p>
19	The following has zero valency	<p>A. Na</p> <p>B. Be</p> <p>C. Al</p> <p>D. Kr</p>
20	Bragg's law is given by equation	<p>A. <math>n \lambda \sin \theta = 2 d \sin \theta</math></p> <p>B. <math>n \lambda = 2 d \sin \theta</math></p> <p>C. <math>2n\lambda = d \sin \theta</math></p> <p>D. <math>n\lambda = \frac{1}{2} d \sin \theta</math></p>