

Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Which of the following fluorides does not exist?	A. NF_5 B. PF_5 C. AsF_5 D. SbF_5
2	2 g oxygen contains number of atoms equal to that in	A. 0.5 g of hydrogen B. 4 g of sulphur C. 7 g of nitrogen D. 2.3 g of sodium
3	One mole of a gas refers to	A. The number of molecules in one litre of gas B. The number of molecules in one gram of gas C. The number of molecules contained in 12 grams of ^{12}C isotope D. The number of molecules in 22.4 liters of a gas at S.T.P.
4	Among alkali metal salts, the lithium salts are the poorest conductors of electricity in aqueous solution because of	A. Easy diffusion of Li^+ ions B. Lower ability of Li^+ ions to polarize water molecules C. Lowest charge to radius ratio D. Higher degree of hydration of Li^+ ions.
5	Water (H_2O) is liquid while hydrogen sulphide (H_2S) is a gas because	A. Water has higher molecular weight B. Hydrogen sulphide is a weak acid C. Sulphur has high electronegativity than oxygen D. Water molecules associate through hydrogen bonding.
6	Which of the following imparts violet colouration to the non-luminous flame of Bunsen burner?	A. NaCl B. BaCl_2 C. CaCl_2 D. KCl
7	Causticisation process is used for the preparation of	A. Caustic soda B. Caustic potash C. Baryata solution D. Slaked lime
8	Vital force theory was rejected by	A. Berzelius B. Kolbe C. Wholer D. Lavoiser
9	According to MO Theory the species O_2^+ possesses	A. Bond order of 2.5 B. Three unpaired electrons C. Diamagnetic character D. Stability lower than O_2
10	Which of the following is not present in RNA?	A. Uracil B. Thymine C. Ribose D. Phosphate
11	Addition of iron filling to CuSO_4 solution caused precipitation of Cu owing to the	A. Reduction of Cu^{2+} B. Oxidation of Cu^{2+} C. Reduction of Fe D. Reduction of Fe^{3+}
12	Which of the following is directly related to Qualitative analysis?	A. Identification B. Separation C. Measurement D. Calculation
13	The dimension of rate constant of a second order reaction involves	A. Neither time nor concentration B. Only time C. Time and concentration D. Time and square of concentration

14	On heating acetaldehyde with ammonical silver nitrate solution we get	A. CH_3OH B. Silver acetate C. HCHO D. Silver mirror
15	Galena is an ore of	A. Gallium B. Lead C. Tin D. Germanium
16	Al is more reactive than Fe but Al is less easily corroded than Fe Because	A. It is a noble metal B. Oxygen forms a protective reaction easily with water C. Iron undergoes reaction easily with water D. Fe form mono and divalent ions.
17	Mark the smallest atom	A. F B. Cl C. Br D. I
18	Heating a mixture of sodium benzoate and soda lime gives	A. Methane B. Benzene C. Sodium benzene D. Calcium benzoate
19	Which of the following will not change the concentration of ammonia in the equilibrium $\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \rightleftharpoons 2\text{NH}_3(\text{g})$; $\Delta H = -\text{kJ}$	A. Increase of pressure B. Increase of temperature C. Decrease of volume D. Addition of catalyst
20	Gooch crucible is used for the filtration of precipitates having	A. High solubility B. High concentration C. High ignition temperature D. Low temperature