

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	The number of oxygen atoms in 4.4 g of CO ₂ is approximately	A. 1.2×10^{23} B. 6×10^{22} C. 6×10^{23} D. 12×10^{23}
2	The order of reactivity of halogens in aliphatic substitution reactions is	A. Br ₂ > Cl ₂ > F ₂ B. Cl ₂ > Br ₂ > F ₂ C. Cl ₂ > Br ₂ > F ₂ D. F ₂ > Br ₂ > Cl ₂
3	Which of the following compounds has the lowest anion to cation size ratio?	A. LiF B. NaF C. CsI D. CsF
4	The addition of HBr is easiest with	A. CH ₂ = CHCl B. ClCH = CHCl C. CH ₃ - CH = CH ₂ D. (CH ₃) ₂ C = CH ₂
5	Which one of the halogen acid is a liquid?	A. HF B. HCl C. HBr D. HI
6	A certain current liberate 0.5 g of hydrogen in 2 h. How many grams of copper can be liberated by the same current flowing for the same time in a copper sulphate solution?	A. 12.7 gm B. 15.9 gm C. 31.8 gm D. 63.5 gm
7	Which of the following alkali metal hydroxides is the strongest base?	A. LiOH B. NaOH C. KOH D. CsOH
8	Hydrogen chloride molecule contains	A. Covalent bond B. Double bond C. Co-ordinate bond D. Electrovalent bond
9	Leblanc process is employed in the manufacture of	A. Baking soda B. Washing soda C. Potash D. Plaster of paris
10	Hess's law deals with	A. Changes in heat or reaction B. Rate of reaction C. Equilibrium constant D. Influence of pressure on volume of a gas.
11	In which molecule carbon atom is sp ² hybridized	A. CH ₄ B. C ₂ H ₄ C. C ₂ H ₂ D. None of the above
12	Sulphonation of benzoic acid produces mainly	A. o-Sulphobenzoic acid B. m-Sulphobenzoic acid C. p-Sulphobenzoic acid D. o- and p-Sulphobenzoic acid
13	Cannizzaro reaction is not given by	A. Trimethyl acetaldehyde B. Acetaldehyde C. Benzaldehyde D. Formaldehyde.
14	Sodium thiosulphate is used in photography because of its	A. Oxidizing behaviour B. Reducing behaviour C. Complexing behaviour D. Photochemical behavior
15	Inter molecular forces in solid hydrogen are	A. Covalent forces B. Van der Waal forces or London dispersion forces C. Hydrogen bonding D. Dipole-dipole forces

		C. Hydrogen bonds D. All of these.
16	Tollen's reagent is	A. Ammonical cuprous chloride B. Ammonical cuprous oxide C. Ammonical silver bromide D. Ammonical silver nitrate
17	The movement of solvent molecules through a semipermeable membrane is called	A. Electrolysis B. Electrophoresis C. Osmosis D. Cataphoresis
18	Saturated solution of NaCl on heating becomes	A. Super saturated B. Unsaturated C. Remains saturated D. None
19	The acid used in lead storage cells is	A. Phosphoric acid B. Nitric acid C. Sulphuric acid D. Hydrochloric acid
20	One mole of 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 litres of a gas at S.T.P.