

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	The number of atoms contained in 11.2 L of SO_2 at S.T.P are	A. $\frac{3}{2} \times 6.02 \times 10^{23}$ B. $2 \times 6.02 \times 10^{23}$ C. 6.02×10^{23} D. $4 \times 6.02 \times 10^{23}$
2	Which of the following is monoatomic?	A. Oxygen B. Neon C. Fluorine D. Nitrogen.
3	Which metal is protected by a layer of its own oxide?	A. Al B. Ag C. Au D. Fe
4	The percentage of nitrogen in urea is	A. 46 B. 60 C. 70 D. 80
5	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
6	Wt. of 112 ml of oxygen at NTP on liquification would be	A. 0.32 g B. 0.64 g C. 0.16 g D. 0.96 g
7	What happens when isotonic solution of A (mol. wt. 342) and B (mol. wt 60) are put in to communication through semipermeable membrane?	A. Transference of solvent from solution A to that of B take place B. Transference of solvent from solution B to that of A takes place C. No transference of solvent from solution A to that of B takes place D. Change in temperature of solutions takes place.
8	When KClO_3 is heated, it decomposes into KCl and O_2 . If some MnO_2 is added, the reaction goes much faster because	A. MnO_2 decomposes to give O_2 B. MnO_2 provide heat by reacting C. Better contact is provided by MnO_2 D. MnO_2 acts as a catalyst.
9	Which of the following alcohols cannot be produced by treatment of aldehydes or ketones with NaBH_4 or LiAlH_4 ?	A. 1-Propanol B. 2-Propanol C. 2-Methyl-2-propanol D. Ethanol
10	Magnesium keeps on burning in	A. N_2 B. CO_2 C. N_2 and O D. N_2 as well as CO_2
11	In cold countries ethylene glycol is added to water in radiators of cars during winter. It results in	A. Lowering in b.pt. B. Reducing viscosity C. Reducing specific heat D. Lowering in freezing pt.
12	Bell metal is an alloy of	A. Cu, Zn and Sn B. Cu, Zn and Ni C. Cu and Zn D. Cu and Sn
13	Propyne on hydrolysis in presence of H_2SO_4 and HgSO_4 gives	A. Acetaldehyde B. Acetone C. Formaldehyde D. None
14	A current of 9.65 ampere flowing for 10 minutes deposits 3.0 g of the metal which is	A. 10 B. 50 C. 20 D. 25

	monovalent. The atomic mass of the metal is	C. 30 D. 96.5
15	In crystal structure of sodium chloride, the arrangement of Cl ⁻ ions is	A. Fcc B. Both Fcc and bcc C. Bcc D. None of these
16	Given below are some statements concerning formic acid, which of them is true?	A. It is a weaker acid than acetic B. it is a reducing agent C. When its calcium salt is heated, it forms a ketone D. It is an oxidizing agent
17	In Friedal-Craft's alkylation besides AlCl ₃ the other reactants are	A. C ₆ H ₆ + NH ₃ B. C ₆ H ₆ + CH ₄ C. C ₆ H ₆ + CH ₃ Cl D. C ₆ H ₆ + CH ₃ COCl
18	The number of unpaired electrons in the p-subshell of oxygen atom	A. 1 B. 2 C. 3 D. 4
19	What quantity of limestone (CaCO ₃) on heating will give 56 kg of CaO?	A. 1000 kg B. 56 kg C. 44 kg D. 100 kg
20	Dolomite has the composition	A. KCl.MgCl ₂ .6H ₂ O B. Na ₃ AlF ₆ C. CaCO ₃ .MgCO ₃ D. CaCl ₂ .MgCl ₂ . 6H ₂ O