

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	Acetylene gives	<p>A. White ppt. with ammonical AgNO_3 and red ppt. with ammonical $\text{Cu}(\text{NO}_3)_2$</p> <p>B. White ppt. with ammonical AgNO_3 and red ppt. with ammonical CuCl_2</p> <p>C. White ppt. with both</p> <p>D. Red ppt. with both</p>
2	When electrons revolve in stationary orbits,	<p>A. There is no change in energy level</p> <p>B. They become stationary</p> <p>C. They are gaining kinetic energy</p> <p>D. There is increase in energy</p>
3	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?	<p>A. 12.7 gm</p> <p>B. 15.9 gm</p> <p>C. 31.8 gm</p> <p>D. 63.5 gm</p>
4	Oleum is	<p>A. Castor oil</p> <p>B. Oil of vitriol</p> <p>C. Fuming of H_2SO_4</p> <p>D. None of them</p>
5	The total number of protons in 10 g of calcium carbonate is ($N_0 = 6.023 \times 10^{23}$)	<p>A. 1.5057×10^{24}</p> <p>B. 2.0478×10^{24}</p> <p>C. 3.0115×10^{24}</p> <p>D. 4.0956×10^{24}</p>
6	Gooch Crucible used to filter the solution of	<p>A. H_2SO_4</p> <p>B. HCl</p> <p>C. KMnO_4</p> <p>D. Both B & C</p>
7	The vapour density of a gas is 11.2. The volume occupied by 11.2 g of this gas at N.T.P. is	<p>A. 22.4 litres</p> <p>B. 11.2 litres</p> <p>C. 1 litre</p> <p>D. 2.24 litres</p>
8	Which of the following reagent cannot be used for preparing alkyl chloride from alcohol?	<p>A. HCl + anhyd. ZnCl_2</p> <p>B. NaCl</p> <p>C. PCl_5</p> <p>D. SOCl_2</p>
9	The molal elevation constant is the ratio of the elevation in boiling point to	<p>A. Molarity</p> <p>B. Molality</p> <p>C. Mole fraction of solute</p> <p>D. Mole fraction of solvent</p>
10	Inert pair effect plays an important role in case of	<p>A. F</p> <p>B. Al</p> <p>C. Si</p> <p>D. Tl</p>
11	Phosphorus pentoxide finds use as	<p>A. An oxidizing agent</p> <p>B. A reducing agent</p> <p>C. a bleaching agent</p> <p>D. A dehydration agent.</p>
12	Ammonia gas used directly as a fertilizer is injected into the soil at a depth of about	<p>A. Two inches</p> <p>B. Three inches</p> <p>C. Five inches</p> <p>D. Six inches</p>
13	Aluminothermy used for on the spot welding of large iron structure is based upon the fact that	<p>A. As compared to iron, aluminium has greater affinity for oxygen</p> <p>B. As compared to aluminium, iron has greater affinity for oxygen</p> <p>C. Refraction between aluminium and oxygen is endothermic</p> <p>D. Reaction between iron and oxygen is endothermic.</p>
		<p>A. Neither time nor concentration</p>

14	The dimension of rate constant of second order reaction involves	B. Only time C. Time and concentration D. Time and square of concentration
15	Which of the following cannot be produced by acidic dehydration of alcohols?	A. Ethers B. Aldehyde C. Alkyl Hydrogen sulphate D. Alkene
16	Sulphure dioxide affects	A. Cell wall B. Plasmodesmata C. All membrane systems D. Nucleus
17	Which one is primary alcohol?	A. Buten-2-ol B. Propan-2-ol C. Butaon-1-ol D. 2, 3-Dimethylhexane-4-ol
18	All the naturally occurring processes proceed spontaneously in a direction which lead to	A. Decrease of entropy B. Increase of enthalpy C. Increase of free energy D. Decrease of free energy
19	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.
20	Leblanc process is employed in the manufacture of	A. Baking soda B. Washing soda C. Potash D. Plaster of paris