

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	Inter molecular forces in solid hydrogen are	A. Covalent forces B. Van der Waal forces or London dispersion forces C. Hydrogen bonds D. All of these.
2	The chemical composition of white lead is	A. Na_2CO_3 B. Pb_3O_4 C. $\text{Pb}(\text{OH})_2 \cdot 2\text{PbCO}_3$ D. PbO
3	The addition of HBr is easiest with	A. $\text{CH}_2 = \text{CHCl}$ B. $\text{ClCH} = \text{CHCl}$ C. $\text{CH}_3 - \text{CH} = \text{CH}_2$ D. $(\text{CH}_3)_2\text{C} = \text{CH}_2$
4	Leblanc process is employed in the manufacture of	A. Baking soda B. Washing soda C. Potash D. Plaster of paris
5	Which of the following cannot be produced by acidic dehydration of alcohols?	A. Ethers B. Aldehyde C. Alkyl Hydrogen sulphate D. Alkene
6	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_2O_3 D. It forms RX_2
7	By using the fluted filter paper rate of filtration is	A. Increased B. Decreased C. Filtration is constant D. Having no effect
8	The weight of 11.2 litres of CO_2 at S.T.P. would be	A. 88 g B. 44 g C. 32 g D. 22 g
9	Potassium is kept in	A. Water B. Ammonia C. Alcohol D. Kerosene.
10	Benzene is obtained by fractional distillation of	A. Heavy oil B. Anthracene oil C. Middle oil D. Light oil
11	The percentage of nitrogen in urea is	A. 46 B. 60 C. 70 D. 80
12	Causticisation process is used for the preparation of	A. Caustic soda B. Caustic potash C. Baryata solution D. Slaked lime
13	The total number of protons in 10 g of calcium carbonate is ($N_0 = 6.023 \times 10^{23}$)	A. 1.5057×10^{24} B. 2.0478×10^{24} C. 3.0115×10^{24} D. 4.0956×10^{24}
14	Which of the following pairs are chemically dissimilar?	A. Na and K B. Ba and Sr C. Zr and Hf D. Ca and Zn
		A. Temperature of the reaction

15	A zero order reaction is one whose rate is independent of	<p>B. The concentration of the reactants</p> <p>C. The concentration of the products</p> <p>D. The material of the vessel in which the reaction is carried out</p>
16	The wire in the flash bulbs is made up of	<p>A. Mg</p> <p>B. Ba</p> <p>C. Cu</p> <p>D. Ag</p>
17	The number of oxygen atoms in 4.4 g of CO ₂ is approximately	<p>A. 1.2×10^{23}</p> <p>B. 6×10^{22}</p> <p>C. 6×10^{23}</p> <p>D. 12×10^{23}</p>
18	Phenol is heated with CCl ₄ and alkaline KOH when salicylic acid is produced. The reaction is known as	<p>A. Friedel-Craft reaction</p> <p>B. Reimer-Tiemann's reaction</p> <p>C. Rosenmund's reaction</p> <p>D. Sommelet reaction</p>
19	Which inorganic precipitate acts as semipermeable membrane?	<p>A. Calcium sulphate</p> <p>B. Barium oxalate</p> <p>C. Nickel phosphate</p> <p>D. Copper ferrocyanide</p>
20	Which of the following possesses the highest melting point?	<p>A. Chlorobenzene</p> <p>B. o-Dichlorobenzene</p> <p>C. m-Dichlorobenzene</p> <p>D. p-Dichlorobenzene</p>