

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	The bond angle H-O-H in ice is closest to	<p>A. 120°</p> <p>B. 60°</p> <p>C. 90°</p> <p>D. 109°</p>
2	The last orbit of argon would have electrons	<p>A. 8</p> <p>B. 18</p> <p>C. 2</p> <p>D. 6</p>
3	If the solvent is inflammable for heating purpose we use	<p>A. Ice bath</p> <p>B. Water bath</p> <p>C. Wire gauze</p> <p>D. Thermostat</p>
4	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>
5	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>
6	Salol is prepared from	<p>A. Salicylic acid and phenol</p> <p>B. Salicylic acid and methyl alcohol.</p> <p>C. Both</p> <p>D. None</p>
7	The essential component of organic compound is	<p>A. O</p> <p>B. C</p> <p>C. P</p> <p>D. N</p>
8	Setting of cement is an	<p>A. Exothermic reaction</p> <p>B. Endothermic reaction</p> <p>C. Neither exothermic nor endothermic</p> <p>D. None</p>
9	The rate of a reaction that does not involves gases, does not depend upon	<p>A. Pressure</p> <p>B. Temperature</p> <p>C. Concentration</p> <p>D. Catalyst</p>
10	Which of the following is an example of body centred cube?	<p>A. Magnesium</p> <p>B. Zinc</p> <p>C. Copper</p> <p>D. Sodium</p>
11	Heating a mixture of sodium benzoate and soda lime gives	<p>A. Benzene</p> <p>B. Methane</p> <p>C. Sodium benzoate</p> <p>D. Calcium benzoate</p>
12	Bleaching action of bleaching powder is due to the liberation of	<p>A. O_2</p> <p>B. OCl_2</p> <p>C. Cl_2</p> <p>D. $CaCl_2$</p>

		D. $\text{Cl}^{\sup>}</sup>$
13	Which of the following is a molecular disease?	A. Allergy B. Cancer C. German measles D. Sickle cell anemia
14	At room temperature formaldehyde is	A. Gas B. Liquid C. Solid D. None of the above
15	For most of the chemical reactions the rate of reaction	A. Increase as the reaction proceeds B. Decrease as the reaction proceeds C. May increase or decrease during the reaction D. Remains constant as the reaction proceeds
16	An electrolyte	A. Forms complex ions in solution B. Gives ions only when electricity is passed C. Possesses ions even in solid state D. Gives ions only when dissolved in water
17	Causticisation process is used for the preparation of	A. Caustic soda B. Caustic potash C. Baryta solution D. Slaked lime
18	Hybridization explain the ----- of orbitals	A. Type of Bonding B. Shapes C. Shape and Type of bonding D. None of above
19	By using the fluted filter paper rate of filtration is	A. Increased B. Decreased C. Filtration is constant D. Having no effect
20	The heat evolved in combustion of rhombic and monoclinic sulphur are -70960 and $-71030 \text{ cal mol}^{-1}$ respectively. What will be heat of conversion of rhombic sulphur to monoclinic?	A. 70960 calories B. 71030 calories C. -70 calories D. +70 calories