

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	Natural fertilizer provides phosphorus to plants in the form of P_2O_5	A. 1.2 kg B. 2.2 kg C. 3.2 kg D. 4 kg
2	If N_A is Avogadro's number, then number of valence electrons in 4.2 g of nitride ions N^{3-} is	A. $2.4 N_A$ B. $4.2 N_A$ C. $1.6 N_A$ D. $3.2 N_A$
3	The number of unpaired electrons in the p-subshell of oxygen atom	A. 1 B. 2 C. 3 D. 4
4	Which one of the following compounds does not exist?	A. NCl_5 B. AsF_5 C. $SbCl_5$ D. PF_5
5	Among alkali metal salts, the lithium salts are the poorest conductors of electricity in aqueous solution because of	A. Easy diffusion of Li^+ ions B. Lower ability of Li^+ ions to polarize water molecules C. Lowest charge to radius ratio D. Higher degree of hydration of Li^+ ions
6	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 takes 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.
7	Which of the following is monoatomic?	A. Oxygen B. Neon C. Fluorine D. Nitrogen.
8	The isomers due to the unequal distribution of carbon atoms on either side of the functional group belonging to the same homologous series are called	A. Functional isomers B. Position isomers C. Chain isomers D. Metamers
9	The rate at which a substance reacts depends on its	A. Atomic weight B. Equivalent weight C. Molecular weight D. Active mass
10	Dilute hydrochloric acid solution cannot be concentrated by boiling beyond	A. 11% B. 33% C. 44% D. 22%
11	Which of the following is a molecular disease?	A. Allergy B. Cancer C. German measles D. Sickle cell anemia
12	The bond angle H-O-H in ice is closest to	A. 120° B. 60° C. 90° D. 109.5°

		<p>size: 18px; color: rgb(34, 34, 34); background-color: rgb(255, 255, 248);">" D. 109"</p>
13	The freezing point of 1 molal NaCl solution assuming NaCl to be 100% dissociated in water in	<p>A. -1.86"°C B. -3.72"°C C. +1.86"°C D. +3.72"°C</p>
14	The percentage of nitrogen in urea is	<p>A. 46 B. 60 C. 70 D. 80</p>
15	Which of the following is directly related to Qualitative analysis?	<p>A. Identification B. Separation C. Measurement D. Calculation</p>
16	In N.W.F.P the phosphate fertilizers are produced at	<p>A. D.I.Khan B. Haripur C. Nowshera D. Dargai</p>
17	The number of atoms in 0.004 g of magnesium is close to	<p>A. 24 B. 2×10^{20} C. 10^{20} D. 6.02×10^{23}</p>
18	Setting of Plaster of Paris involves	<p>A. Oxidation with atmospheric B. Combination with atmospheric CO_2 C. Dehydration D. Hydration to yield another hydrate</p>
19	The alkali metal which is liquid at 15°C is	<p>A. K B. Cs C. Na D. None</p>
20	When a carbon atom forms single bonds with other carbon atoms, these hybrid orbitals overlap with the orbitals of hydrogen to form four bonds which are	<p>A. Three sigma and one $\text{P}_{i/2}$ B. Two sigma and two $\text{P}_{i/2}$ C. One sigma and three $\text{P}_{i/2}$ D. Sigma</p>