

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	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
2	The formula to calcium cyanamide is	A. $\text{Ca}(\text{CN})_2$ B. CaC_2N_2 C. CaNCN D. CaCHNH_2
3	Ozone is not	A. An allotrope B. A powerful oxidizing agent C. Paramagnetic D. a bent molecule
4	Acetic anhydride is obtained from acetyl chloride by the reaction of	A. P_2O_5 B. H_2SO_4 C. CH_3COONa D. CH_3COCH_3
5	Which of the following has no tin in its composition?	A. Solder B. Bronze C. Brass D. Tin stone
6	Which of the following substances is used as an antiknock compound?	A. Tetraethyl lead B. Lead tetrachloride C. Lead acetate D. Ethyl acetate
7	Which one is the property of an ideal solvent?	A. Should be expensive B. It should react chemically with the solute C. Impurities should crystallize along with the solute D. Should be safe to use
8	The relative rates of diffusion of a gas (molecular weight = 128) as compared to oxygen is	A. 2 times B. 1/4 C. 1/8 D. 1/2
9	Which of the following transition metal ions will have definite value of magnetic moment?	A. Sc^{3+} B. Ti^{3+} C. Cu^{+} D. Zn^{2+}
10	The substance used as a smoke screen in warfare is	A. SiCl_4 B. PH_3 C. PCl_5 D. Acetylene
11	The maximum number of electrons in a subshell for which $l = 3$ is	A. 14 B. 10 C. 8 D. 4
12	Which inorganic precipitate acts as semipermeable membrane?	A. Calcium sulphate B. Barium oxalate C. Nickel phosphate D. Copper ferrocyanide
13	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
14	The digestion of fats in the intestines is aided by	A. Diffusion B. Protection C. Peptization D. Emulsification
		A. High Solubility

15	Gooch crucible is used for the filtration of precipitates having	B. High concentration C. High ignition temperature D. Low Temperature
16	Which species represents the electrophile in aromatic nitration?	A. NO_2^- B. NO_2^+ C. NO_2 D. NO_3^-
17	The acid used in lead storage cells is	A. Phosphoric acid B. Nitric acid C. Sulphuric acid D. Hydrochloric acid
18	Setting of cement is an	A. Exothermic reaction B. Endothermic reaction C. Neither exothermic nor endothermic D. None
19	Hybridization explain the ----- of orbitals	A. Type of Bonding B. Shapes C. Shape and Type of bonding D. None of above
20	Carbon monoxide is pollutant as it	A. Inactivates nerves B. Inhibits glycolysis C. Combines with oxygen D. Combines with hemoglobin