

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	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
2	Natural fertilizer provides phosphorus to plants in the form of P ₂ O ₅	A. 1.2 kg B. 2.2 kg C. 3.2 kg D. 4 kg
3	Which of the following fluorides does not exist?	A. NF ₅ B. PF ₅ C. AsF ₅ D. SbF ₅
4	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.
5	Reaction of acids with alcohols is also known as	A. Esterification B. Saponification C. Alkalization D. None
6	Alum is not used	A. As a mordant in dyeing B. As an insecticide C. In purification of water D. In tanning of leather
7	What happens when CCl ₄ is treated with AgNO ₃ solution?	A. NO ₂ will be evolved B. A white ppt. of AgCl will form C. CCl ₄ will dissolve in AgNO ₃ solution D. Nothing will happen
8	Wt. of 112 ml of oxygen at NTP on liquification would be	A. 0.32 g B. 0.64 g C. 0.16 g D. 0.96 g
9	Which one of the halogen acid is a liquid?	A. HF B. HCl C. HBr D. HI
10	Which of the following has least mass?	A. 2 gram atom of nitrogen B. 3 × 10 ²³ atoms of C C. 1 mole of S D. 7.0 g of Ag.
11	The bond angle H-O-H in ice is closest to	A. 120° B. 60° C. 90° D. 109°
12	Calcium acetate when drv distilled	A. Formaldehyde B. Acetaldehyde

		<p>C. Acetone D. Acetic anhydride</p>
13	Which of the following statement regarding catalyst is not true?	<p>A. A catalyst remains unchanged in composition and quantity at the end of the reaction B. A catalyst can initiate a reaction C. A catalyst dose not alter the equilibrium in a reversible reaction D. Catalysts are sometimes very specific in respect of reaction.</p>
14	The carbon atoms in calcium carbide are held by	<p>A. Ionic bonds B. Sigma bonds C. 2 covalent, one co-ordinate bond D. π and σ bond</p>
15	The digestion of fats in the intestines is aided by	<p>A. Diffusion B. Protection C. Peptization D. Emulsification</p>
16	Each of following is true of white and red phosphours except that they	<p>A. Are both soluble in CS_2 B. Can be oxidized by heating in air C. Consist of the same kind of atoms D. Can be converted into one another</p>
17	Most common reactions of benzene and its derivatives are	<p>A. Electrophilic addition reactions B. Electrophilic substitution reactions C. Nucleophilic addition reactions D. Nucleophilic substitution reactions</p>
18	Galena is an ore of	<p>A. Gallium B. Lead C. Tin D. Germanium</p>
19	Maximum number of active hydrogens	<p>A. Acetic acid B. Glycerol C. Methane D. Methanol</p>
20	Hess's law deals with	<p>A. Changes in heat or reaction B. Rate of reaction C. Equilibrium constant D. Influence of pressure on volume of a gas.</p>