

## ECAT Chemistry Chapter 14 Group IIIA & IVA Elements Online Test

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Sr	Questions	Answers Choice
1	Which of the following is a tetrabasic acid?	<ul><li>A. ORthophosphoric acid</li><li>B. Hyposphosphorus acid</li><li>C. Metaphosphoric</li><li>D. Pyrophosphoric acid</li></ul>
2	Basicity of orthoposphoric acid is	A. 2 B. 3 C. 4 D. 5
3	P <sub>2</sub> O <sub>5</sub> is heated with water to give	<ul><li>A. Hypophosphorus acid</li><li>B. Phosphorus acid</li><li>C. Hypophosphorus acid</li><li>D. Orthophosphorus acid</li></ul>
4	Sodium hexametaphophate is known as	A. Calgon B. Permutite C. Natalite D. Nitrolim
5	When ammonia is heated with cupric oxide, a molecule of ammonia will	A. Gain 3 electrons B. Lose 3 electrons C. Gain 2 electrons D. Lose 2 electrons
6	HNO <sub>2</sub> acts as an/a	A. Acid B. Oxidizing agent C. Reducing agent D. All the three
7	Which of the following compounds is explosive in nature?	<ul><li>A. Phosphorus trichloride</li><li>B. Nitrogen trichloride</li><li>C. Hyponitrous acid</li><li>D. Nitrosyl chloride</li></ul>
8	What causes nitrogen to be chemically inert?	A. Multiple bond formation in the molecule     B. Absence of bond distance     C. Short internuclear distance     D. High bond energy
9	White phosphorus is	A. A mono atomic gas B. P <sub>4</sub> , a tetrahedral solid C. P <sub>8</sub> , a crown D. A linear diatomic molecule
10	Which of the following has highest dipole moment?	A. NH <sub>3</sub> B. PH <sub>3</sub> C. AsH <sub>3</sub> D. SbH <sub>3</sub>
11	Orthophosphoric acid is	A. Monobasic B. Dibasic C. Tribasic D. Tetrabasic
12	Which oxide of nitrogen is obtained on heating ammonium nitrate at 250 $^{\circ}$ C?	A. Nitric oxide B. Nitrous oxide C. Nitrogen dioxide D. Dinitrogen tetraoxide
13	The oxyacids of phosphorus in which phosphorus has the lowest oxidiation state is	A. Hypophosphorus acid B. Orthophosphorus acid C. Pyrophosphorus acid D. Metaphosphorus acid
14	The most acidic of the following compounds is	A. P <sub>2</sub> O <sub>3</sub> B. Sb <sub>2</sub> O <sub>3</sub> C. B <sub>2</sub> O <sub>3</sub> D. As <sub>2</sub> O <sub>3</sub>
15	Which of the following phosphorus is most reactive?	A. Red phosphorus B. White phosphorus C. Scrlet phosphorus