

ECAT Chemistry Chapter 14 Group IIIA & IVA Elements

Sr	Questions	Answers Choice
1	Each of the following is true of white and red phosphours except that they	<p>A. Are both soluble in CS_2</p> <p>B. Can be oxidized by heating in air</p> <p>C. Consist of the same kind of atoms</p> <p>D. Can be converted into one another</p>
2	Calcium carbide reacts with water to produce	<p>A. Acetylene</p> <p>B. Methane</p> <p>C. Ethylene</p> <p>D. Ethane</p>
3	S-block elements consist of	<p>A. Alkali metals</p> <p>B. Alkaline earth metals</p> <p>C. Alkali and alkaline earth metals</p> <p>D. None of these</p>
4	Which of the following is the hardest metal among following	<p>A. Li</p> <p>B. Na</p> <p>C. Rb</p> <p>D. K</p>
5	Al is the most element in earth crust:	<p>A. O</p> <p>B. Si</p> <p>C. Al</p> <p>D. Pb</p>
6	Hybridized in oxygen is:	<p>A. sp</p> <p>B. sp^2</p> <p>C. sp^3</p> <p>D. dsp^3</p>
7	Which is not the form of silica?	<p>A. Amethyst quatz</p> <p>B. Rose quatz</p> <p>C. Smoky</p> <p>D. None of these</p>
8	The maximum number of electrons in the outermost shall of s-block elements is	<p>A. One</p> <p>B. Two</p> <p>C. Three</p> <p>D. Four</p>
9	Alkaline earth metals posses two electrons in their outermost	<p>A. F-orbital</p> <p>B. D-orbital</p> <p>C. S-orbital</p> <p>D. P-orbital</p>
10	Which of the following is acidic?	<p>A. SO_3</p> <p>B. N_2O</p> <p>C. BeO</p> <p>D. HgO</p>
11	Which of the following has highest dipole moment?	<p>A. NH_3</p> <p>B. PH_3</p> <p>C. AsH_3</p> <p>D. SbH_3</p>
12	The oxide of beryllium is	<p>A. Acidic</p> <p>B. Amphoteric</p> <p>C. Superoxide</p> <p>D. Basic</p>
13	Which one of the following elements occurs free in nature?	<p>A. N</p> <p>B. P</p> <p>C. As</p> <p>D. Sb</p>
14	Chemical composition of colemanite is:	<p>A. $Ca_2B_6O_{11} \cdot 5H_2O$</p> <p>B. $CaB_4O_7 \cdot 4H_2O$</p> <p>C. $Na_2B_7O_{10} \cdot 4H_2O$</p> <p>D. $CaNaB_5O_9 \cdot 8H_2O$</p>
15	Which one of the following pentafluorides cannot be formed?	<p>A. PF_5</p> <p>B. AsF_5</p>

		<p>C. SbF_5</p> <p>D. BiF_5</p>
16	Plaster of Paris is obtained by heating	<p>A. Gypsum</p> <p>B. Epsom</p> <p>C. Lime stone</p> <p>D. Dolomite</p>
17	Which of the following sulphates is not soluble in water	<p>A. Sodium sulphate</p> <p>B. Potassium sulphate</p> <p>C. Zinc sulphate</p> <p>D. Barium sulphate</p>
18	Which of the following element is most reactive	<p>A. Li</p> <p>B. Na</p> <p>C. K</p> <p>D. Cs</p>
19	The ore $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ has the general name	<p>A. Gypsum</p> <p>B. Dolomite</p> <p>C. Calcite</p> <p>D. Epsom salt</p>
20	The chemical formula of gypsum is	<p>A. $\text{CaSO}_4 \cdot 5\text{H}_2\text{O}$</p> <p>B. $\text{CaSO}_4 \cdot 4\text{H}_2\text{O}$</p> <p>C. $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$</p> <p>D. None of these</p>