ECAT Chemistry Chapter 14 Group IIIA & IVA Elements

Sr	Questions	Answers Choice
1	The chemical formula of Epson salt is	A. MgSO₄ B. MgCl₂ C. MgSO₄. 7H₂O D. MgCl₂. 7H₂O
2	The chemical formula of gypsum is	A. CaSO₄. 5H₂O B. CaSO₄. 4H₂O C. CaSO₄. 2H₂O D. None of these
3	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
4	Potassium superoxide has a use in breathing equipment in space crafts. The balanced equation for the reaction is	
5	LiOH _____ soluble than NaOH	A. More soluble B. Less soluble C. Equally soluble D. None
6	Sodium is manufacture by the electrolysis of fused sodium chloride and not from an aqueous solution of sodium chloride because	A. Sodium chloride does not ionize in the water solution B. Sodium chloride is not soluble in water C. Sodium deposited at the cathode may react with water to form sodium hydroxide D. Electricity does not pass through aqueous NaCl
7	The element which has a simple cubic lattice in solid state is	A. Se B. Te C. Po D. None of these
8	The most acidic of the following compounds is	A. P₂O₃ B. Sb₂O₃ C. B₂O₃ D. As₂O₃
9	Permonosulphuric acid is known as	A. Marshall's acid B. Carlo's acid C. Sulphuric acid D. None of these
10	Which is used in navigational equipments?	A. B B. Be C. Mg D. Al
11	Boric acid cannot be used:	A. An antiseptic in medicine B. For washing eyes C. In soda bottles D. For enamels and glazes
12	Which is an essential constituent of chlorophyll	A. Be B. Fe C. Mg D. Ca
13	Which element among the following belongs to Group IV-A of the periodic table?	A. Barium B. Iodine C. Lead D. Oxygen
14	Some of the elements of a period show similar behavior with the elements of next group in next period this is called	A. Vertical relationship B. Oblique relationship C. Diagonal relationship D. None
15	Hybridized in oxygen is:	A. sp B. sp² C. sp³

		D. dsp³
16	Francium is an element at the bottom of Group I in the Periodic Table. Which one of the following predication is likely to be correct?	A. It will react with water to liberate oxygen B. Its hydroxide will be a strong alkali in water C. Its carbonate will decompose on heating to give carbon dioxide D. Its nitrate on heating will give nitrogen dioxide and oxygen
17	Which of the following form normal oxide	A. K B. Li C. Na D. None
18	Density of aluminium is (g cm^{-3}):	A. B B. Al C. Si D. Ge
19	Borax is a common mineral of alkali metal sodium. Its formula is	A. Na₂B₄O₇ B. Na₂,B₄O₇.10H₂O C. Na₂B₃O₆.10H₂O D. Na₂B₄O₇-5H₂O
20	The structure of white phosphorus is	A. Square planar B. Pyramidal C. Tetrahedral D. Trigonal planer