

ECAT Chemistry Chapter 14 Group IIIA & IVA Elements

Sr	Questions	Answers Choice
1	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
2	Potassium superoxide has a use in breathing equipment in space crafts. The balanced equation for the reaction is	
3	A compound used as eye wash:	A. Borax B. Boric acid C. Metabolic acid D. Pyroboric acid
4	Pb has inert pair of electrons:	A. One B. Two C. Three D. Four
5	The electrolytic cell used for the production of metallic sodium is known as	A. Down's cell B. Solvay's cell C. Haber's cell D. None of these
6	_____ is called milk of magnesia	A. NaOH B. KOH C. LiOH D. None
7	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
8	_____ is used in breathing equipments for mountaineers and in space craft	A. Li_2O B. BeO C. N_2 D. KO_2
9	Red P can be obtained form white P by	A. Heating it with a catalyst in an inert atmosphere B. Distilling it in an inert atmosphere C. Dissolving it in CS_2 and crystallizing D. Melting it and pouring the liquid into water
10	Which of the following statement is not related to Solvay's process of Na_2CO_3	A. Cheap materials B. Pure product C. Continuous process D. Harmful by-products
11	The alkali metals form	A. Ionic bond B. Covalent bond C. Co-ordinate bond D. H-bond
12	What is chrome yellow?	A. PbO B. Pb_2O C. PbCrO_4 D. Pb_3O_4
13	When a colourless gas is passed through bromine water only decolourisation takes place the gas is	A. SO_2 B. HBR C. HCl D. H_2S
14	When SO_2 is passed through acidified $\text{K}_2\text{Cr}_2\text{O}_7$ solution	A. The solution turns blue B. The solution is decolourised C. SO_2 is reduced

D. Green $\text{Cr}_2(\text{SO}_4)_3$ is formed

15	NaHCO_3 is prepared by	A. Down's process B. Solvay's process C. Nelson's process D. None of these
16	Which electronic configuration corresponds to an element of Group II-A of the periodic table?	A. $1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 4s^2$ B. $1s^2, 2s^2, 2p^6, 3s^2, 3p^1$ C. $1s^2, 2s^2, 2p^6, 3s^2, 3p^1$ D. $1s^2, 2s^2, 2p^6, 3s^2, 3p^3$
17	Which of the following sulphates has the highest solubility in water	A. BaSO_4 B. CaSO_4 C. MgSO_4 D. BeSO_4
18	Which is an essential constituent of chlorophyll	A. Be B. Fe C. Mg D. Ca
19	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
20	Phosphine is not obtained by the reaction when	A. White P is heated with NaOH B. Red P is heated with NaOH C. CaP_2 reacts with water D. PH_4I is boiled with water