

ECAT Chemistry Chapter 14 Group IIIA & IVA Elements

Sr	Questions	Answers Choice
1	Gypsum is applied to the soil to provide calcium and	A. Oxygen B. Nitrogen C. Phosphorous D. Sulphur
2	Which of the following phosphorus is most reactive?	A. Red phosphorus B. White phosphorus C. Scarlet phosphorus D. Violet phosphorous
3	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
4	Chile saltpetre has the chemical formula	A. NaNO_3 B. KNO_3 C. $\text{Na}_2\text{B}_4\text{O}_7$ D. $\text{Na}_2\text{CO}_3\text{H}_2\text{O}$
5	Which of the following compound is industrially prepared by the electrolysis of solution of NaCl	A. Na_2CO_3 B. NaHCO_3 C. NaOH D. NaOCl
6	Which of the following oxides is peroxide?	A. Na_2O_2 B. MnO_2 C. BaO D. SO_2
7	Al is the most element in earth crust:	A. O B. Si C. Al D. Pb
8	Which of the following element is most reactive	A. Li B. Na C. K D. Cs
9	Which will have the maximum value of heat of hydration	A. Na^+ B. Cs^+ C. Ba^{2+} D. Mg^{2+}
10	Which element forms an iron with charge 3+?	A. Beryllium B. Aluminium C. Carbon D. Silicon
11	P_2O_5 is heated with water to give	A. Hypophosphorus acid B. Phosphorus acid C. Hypophosphorus acid D. Orthophosphorus acid
12	The chemical formula of chile salt peter is	A. Na_2CO_3 B. KNO_3 C. NaNO_3 D. NaNO_2
13	On alkali and alkaline earth metals down the group, there is decreasing trend in	A. m.p. B. b.p. C. Ionization potential D. All of these
14	Dipole moment of CO molecule is:	A. 0.0 B. 1.112 D C. 0.112 D D. 2.112 D
15	What is the formula of asbestos?	A. $\text{CaMg}_3(\text{SiO}_3)_4$ B. CaSiO_3 C. $\text{Na}_2\text{Si}_3\text{O}_8$

C. $\text{Na}_{2}\text{SiO}_3$
D. $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$

16 Identify the incorrect statement with respect to ozone

A. Ozone is formed in the upper atmosphere by a photochemical reaction involving dioxygen
B. Ozone is more reactive than dioxygen
C. Ozone is diamagnetic whereas dioxygen is paramagnetic
D. Ozone protects the earth's inhabitants by absorbing gamma-radiations

17 Sodium forms largely

A. Normal oxides
B. Per-oxides
C. Superoxides
D. None of these

18 Silicon atom is hybridized:

A. sp
B. sp^2
C. sp^3
D. dsp^2

19 Which of the element is not an alkaline earth metal

A. Beryllium
B. Strontium
C. Barium
D. Caesium

20 Which of the following sulphates is not soluble in water

A. Sodium sulphate
B. Potassium sulphate
C. Zinc sulphate
D. Barium sulphate
