

ECAT Chemistry Chapter 14 Group IIIA & IVA Elements Online Test

Sr	Questions	Answers Choice
1	Calcium carbide reacts with water to produce	A. Acetylene B. Methane C. Ethylene D. Ethane
2	Where lime is not used	A. In refining of metals B. In paper industry C. In glass industry D. In the preparation of NaOH
3	Lime, calcium oxide, is used in agriculture for	A. Adding Ca metal in soil B. Making soil acidic C. Neutralizing acidic soil D. Adding oxygen to soil
4	Plaster of Paris is obtained by heating	A. Gypsum B. Epsom C. Lime stone D. Dolomite
5	Gypsum is applied to the soil to provide calcium and	A. Oxygen B. Nitrogen C. Phosphorous D. Sulphur
6	Down's cell is used to prepare	A. Sodium carbonate B. Sodium bicarbonate C. Sodium metal D. Sodium hydroxide
7	The ore $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ has the general name	A. Gypsum B. Dolomite C. Calcite D. Epsom salt
8	Chile saltpetre has the chemical formula	A. NaNO_3 B. KNO_3 C. $\text{Na}_2\text{B}_4\text{O}_7$ D. $\text{Na}_2\text{CO}_3 \cdot \text{H}_2\text{O}$
9	The element caesium bears resemblance with	A. Ca B. Cr C. Rubidium D. None of the above
10	Which of the following sulphates is not soluble in water	A. Sodium sulphate B. Potassium sulphate C. Zinc sulphate D. Barium sulphate
11	Which one of the following is not an alkali metal	A. Francium B. Caesium C. Rubidium D. Radium
12	Which will have the maximum value of heat of hydration	A. Na^+ B. Cs^+ C. Ba^{2+} D. Mg^{2+}
13	The oxide of beryllium is	A. Acidic B. Amphoteric C. Superoxide D. Basic
14	Which one of the following does not belong to alkaline earth metals	A. Be B. Ra C. Ba D. Rn
15	Alkaline earth metals are usually	A. Reducing agent B. Oxidizing agent C. Amphoteric D. None

D. Acidic

16	Which of the following compound is industrially prepared by the electrolysis of solution of NaCl	<p>A. Na_2CO_3</p> <p>B. NaHCO_3</p> <p>C. NaOH</p> <p>D. NaOCl</p>
17	Baking powder has which one of the following formula	<p>A. Na_2CO_3</p> <p>B. Na_2SO_4</p> <p>C. NaHCO_3</p> <p>D. K_2CO_3</p>
18	The silver bromide in hypo ($\text{Na}_2\text{S}_2\text{O}_3$) solution is	<p>A. Soluble</p> <p>B. Not soluble</p> <p>C. Precipitated</p> <p>D. Not effect</p>
19	Which metal of Group-II A of the periodic Table, will form the least ionic chloride	<p>A. Be</p> <p>B. Mg</p> <p>C. Ca</p> <p>D. Sr</p>
20	Solvay process is used in the manufacture of	<p>A. Na_2CO_3</p> <p>B. NaHCO_3</p> <p>C. CaCl_2</p> <p>D. All</p>
21	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?	<p>A. It will react with water to liberate oxygen</p> <p>B. Its hydroxide will be a strong alkali in water</p> <p>C. Its carbonate will decompose on heating to give carbon dioxide</p> <p>D. Its nitrate on heating will give nitrogen dioxide and oxygen</p>
22	Which element has highest oxidation potential	<p>A. Li</p> <p>B. Be</p> <p>C. Ba</p> <p>D. Ra</p>
23	Which of the following sulphates has the highest solubility in water	<p>A. BaSO_4</p> <p>B. CaSO_4</p> <p>C. MgSO_4</p> <p>D. BeSO_4</p>
24	The chemical formula of Trona is	<p>A. $\text{KCl} \cdot \text{MgCl}_2 \cdot 6\text{H}_2\text{O}$</p> <p>B. $\text{Na}_2\text{CO}_3 \cdot 2\text{NaHCO}_3 \cdot 2\text{H}_2\text{O}$</p> <p>C. Na_2CO_3</p> <p>D. KCl</p>
25	Commercial common salt becomes slight damp on storing because	<p>A. Common salt is hygroscopic</p> <p>B. Common salt contains some impurity, which is hygroscopic</p> <p>C. Salt is efflorescent</p> <p>D. Salt is crystalline</p>
26	Sodium should be stored in	<p>A. Air free from moisture</p> <p>B. Air free from carbon dioxide</p> <p>C. Under water</p> <p>D. Under kerosene oil</p>
27	Sodium is manufacture by the electrolysis of fused sodium chloride and not from an aqueous solution of sodium chloride because	<p>A. Sodium chloride does not ionize in the water solution</p> <p>B. Sodium chloride is not soluble in water</p> <p>C. Sodium deposited at the cathode may react with water to form sodium hydroxide</p> <p>D. Electricity does not pass through aqueous NaCl</p>
28	Which of the following statement is not related to Solvay's process of Na_2CO_3	<p>A. Cheap materials</p> <p>B. Pure product</p> <p>C. Continuous process</p> <p>D. Harmful by-products</p>
29	Which of the following equations represents the action of heat on NaHCO_3	
30	Some of the elements of a period show similar behavior with the elements of next group in next period this is called	<p>A. Vertical relationship</p> <p>B. Oblique relationship</p> <p>C. Diagonal relationship</p> <p>D. None</p>