

AIPMT-2010

1. Compound A on heating gives a colourless gas and a residue that is dissolved in water to obtain B. Excess of CO_2 is bubbled through aqueous solution of B, C is formed which is recovered in the solid form. Solid C on gentle heating gives back A. The compound is :-
 (1) Na_2CO_3 (2) K_2CO_3
 (3) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ (4) CaCO_3

AIPMT Mains-2011

2. Which of the following statements is incorrect :-
 (1) NaHCO_3 on heating gives Na_2CO_3
 (2) Pure sodium metal dissolves in liquid ammonia to give blue solution
 (3) NaOH reacts with glass to give sodium silicate
 (4) Aluminium reacts with excess NaOH to give Al(OH)_3

NEET-II 2016

3. The suspension of slaked lime in water is known as
 (1) milk of lime
 (2) aqueous solution of slaked lime
 (3) limewater
 (4) quicklime

SB0081

4. In context with beryllium, which one of the following statements is **incorrect** ?
 (1) Its salts rarely hydrolyze.
 (2) Its hydride is electron-deficient and polymeric.
 (3) It is rendered passive by nitric acid.
 (4) it forms Be_2C .

NEET(UG) 2019 (ODISHA)

5. Crude sodium chloride obtained by crystallisation of brine solution does not contain
 (1) MgSO_4 (2) Na_2SO_4 (3) MgCl_2 (4) CaSO_4
6. Which of the alkali metal chloride (MCl) forms its dihydrate salt ($\text{MCl} \cdot 2\text{H}_2\text{O}$) easily ?
 (1) LiCl (2) CsCl (3) RbCl (4) KCl

NEET(UG) 2020

7. HCl was passed through a solution of CaCl_2 , MgCl_2 and NaCl . Which of the following compound(s) crystallise(s) ?
 (1) NaCl , MgCl_2 and CaCl_2
 (2) Both MgCl_2 and CaCl_2

- (3) Only NaCl
 (4) Only MgCl_2

8. The following metal ion activates many enzymes, participates in the oxidation of glucose to produce ATP and with Na , is responsible for the transmission of nerve signals.
 (1) Potassium (2) Iron
 (3) Copper (4) Calcium

NEET(UG) 2020(COVID-19)

9. Identify the correct statement from the following.
 (1) The order of hydration enthalpies of alkaline earth cations
 $\text{Be}^{2+} < \text{Mg}^{2+} < \text{Ca}^{2+} < \text{Sr}^{2+} < \text{Ba}^{2+}$
 (2) Lithium and Magnesium show some similarities in their physical properties as they are diagonally placed in periodic table.
 (3) Lithium is softer among all alkali metals.
 (4) Lithium chloride is deliquescent and crystallises as a hydrate, $\text{LiCl} \cdot \text{H}_2\text{O}$.
10. What is the role of gypsum, $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ in setting of cement ? Identify the correct option from the following :
 (1) to fasten the setting process
 (2) to provide water molecules for hydration process
 (3) to help to remove water molecules
 (4) to slow down the setting process

NEET(UG) 2021

11. Among the following alkaline earth metal halides, one which is covalent and soluble in organic solvents is:
 (1) Calcium chloride (2) Strontium chloride
 (3) Magnesium chloride (4) Beryllium chloride
12. The structures of beryllium chloride in solid state and vapour phase, are:
 (1) Chain and dimer, respectively
 (2) Linear in both
 (3) Dimer and Linear, respectively
 (4) Chain in both

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Ans.	4	4	1	1	1	1	3	1	2	4	4	1	