

Date Planned : __ / __ / __	Daily Tutorial Sheet-1	Expected Duration : 30 Min
Actual Date of Attempt : __ / __ / __	Level-1	Exact Duration : _____

- Which of the following property of hydrogen does not resemble with alkali metals ?  
 (A) Tendency to form cation (B) Nature of oxide  
 (C) Combination with halogens (D) Reducing character
- The metal that can't displace hydrogen from dil. HCl is : ▶  
 (A) Al (B) Fe (C) Cu (D) Zn
- Which of the following hydride have significant covalent character : ▶  
 (A) LiH (B) BeH<sub>2</sub> (C) MgH<sub>2</sub> (D) All
- Which of the following statements are correct about ionic hydrides ?  
 (i) Crystalline, non-volatile, non-conducting in solid state  
 (ii) Their melts conduct electricity  
 (iii) Hydrogen is liberated at anode when their melt is electrolysed  
 (iv) LiH is less reactive at moderate temperature  
 (A) (i), (iii) (B) (ii), (iv) (C) (i), (iii), (iv) (D) (i), (ii), (iii), (iv)
- The temporary hardness of water is due to the presence of : ▶  
 (A) Chlorides of Ca and Mg (B) Sulphates of Ca and Mg  
 (C) Bicarbonates of Ca and Mg (D) Carbonates of Ca and Mg
- Which of the following substances causes permanent hardness of water :  
 (A) CaCl<sub>2</sub> (B) Ca(HCO<sub>3</sub>)<sub>2</sub> (C) CaCO<sub>3</sub> (D) All of these
- The formula of Calgon is :  
 (A) Na<sub>2</sub>[Na<sub>4</sub>(PO<sub>3</sub>)<sub>6</sub>] (B) Na<sub>4</sub>[Na<sub>2</sub>(PO<sub>3</sub>)<sub>6</sub>]  
 (C) Na<sub>4</sub>[Na<sub>2</sub>(PO<sub>3</sub>)<sub>3</sub>] (D) Na<sub>2</sub>[Na<sub>4</sub>(PO<sub>3</sub>)<sub>4</sub>]
- De-ionized water is prepared by the following method :  
 (A) Clark's (B) Ion exchange (C) Permutit (D) Calgon
- Which substance cannot be reduced by H<sub>2</sub>O<sub>2</sub> : ▶  
 (A) KMnO<sub>4</sub> / H<sub>2</sub>SO<sub>4</sub> (B) K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> / H<sub>2</sub>SO<sub>4</sub>  
 (C) Ag<sub>2</sub>O (D) Al
- When SO<sub>3</sub> is treated with D<sub>2</sub>O, the products are : ▶  
 (A) D<sub>2</sub>SO<sub>4</sub> (B) D<sub>2</sub>SO<sub>3</sub> (C) D<sub>2</sub> & H<sub>2</sub>SO<sub>4</sub> (D) D<sub>2</sub>SO<sub>5</sub>
- Washing soda is :  
 (A) Na<sub>2</sub>CO<sub>3</sub> (B) Na<sub>2</sub>CO<sub>3</sub> · 10H<sub>2</sub>O  
 (C) KHCO<sub>3</sub> (D) NaHCO<sub>3</sub>
- Sodium metal can be stored under :  
 (A) pyrrole (B) kerosene (C) alcohol (D) water