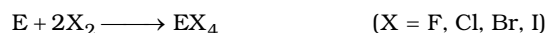
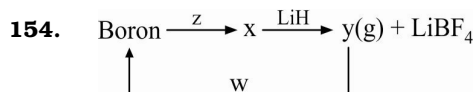


Date Planned : __ / __ / __	Daily Tutorial Sheet-14	Expected Duration : 30 Min
Actual Date of Attempt : __ / __ / __	Level-3	Exact Duration : _____

153. E represents an element belonging to carbon family ▶



- (A) Stability of  $EX_4$  decreases down the 14<sup>th</sup> group  
 (B)  $PbI_4$  does not exist  
 (C) Ge & Pb forms  $EX_2$  as well  
 (D) All are correct



true statement is :

- (A) z is least reactive non-metal (B) w is cooling  
 (C) y is electron deficient (D) All of these

155. An element  $E = \{B, C, Si, Ge\}$ , predict E on the basis of given conditions : ▶

- I. Powdered E reacts with  $O_2$  to form an oxide  
 II. Oxide formed in I reacts with NaOH  
 III. E reacts with steam at red heat forming two gaseous products, which can be used as a fuel.  
 E can be :

- (A) B (B) C (C) Si (D) Ge

156.  $2E + N_2 \xrightarrow{\Delta} 2EN$  (very hard substance) ;  $EN + H_2O \longrightarrow$  Acid + pungent smelling gas. Acid is : ▶

- (A)  $HNO_3$  (B)  $H_3BO_3$  (C)  $HNO_2$  (D) can be A & B

- \*157. Amphoteric oxide  $(X) + 3C + Cl_2 \longrightarrow$  Poisonous gas + anhydrous chloride (Y) ▶



Element forming 'Y' other than 'Cl' reacts with concentrated HCl but leads to passivation with conc.  $HNO_3$ . Select the correct option.

- (A)  $X = Z$  and Y on reacting with LiH forms strong oxidising agent  
 (B)  $X = Z$  and Y on reacting with LiH forms strong reducing agent  
 (C)  $X = Z$  and Y is used as catalyst in Friedel crafts reaction  
 (D)  $X = Z$  and co-ordination number of Y is 6

158. When a solution of sodium hydroxide is added in excess to the solution of potash alum, we obtain :

- (A) a white precipitate (B) bluish white precipitate  
 (C) a clear solution (D) a crystalline mass