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

$E + 2X_2 \longrightarrow EX_4$ (X = F, Cl, Br, I)

(A) Stability of EX_4 decreases down the 14^{th} group

(B) PbI_4 does not exist

(C) Ge & Pb forms EX_2 as well

(D) All are correct

154. $\text{Boron} \xrightarrow{z} x \xrightarrow{LiH} y(g) + LiBF_4$, $x \xrightarrow{w} \text{Boron}$

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)

Hydrated chloride $\xrightarrow{\Delta}$ (Z)

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