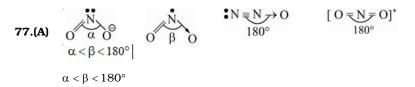


Daily Tutorial Sheet-6 Level - 2

**76.(C)** Rest all are tetrahedral, whereas  $XeF_4$  is square planar. F



- **78.(B)** SnCl<sub>2</sub> and  $O_3$ : angular in shape.
- **79.(D)** All are sp<sup>2</sup> hybridized without any lone pair

80.(c) 
$$F$$
  $Xe$   $F$   $F$   $Cl$   $Cl$   $Cl$   $Cl$   $Cl$   $Cl$ 

- **81.(B)** In  $N_2$ , there is triple covalent bond  $[N \equiv N]$ .
- 82.(ABD) NaCl is ionic in nature and ionic bonds are non-directional

$$I_{3}^{-} \longrightarrow sp^{3}d \begin{bmatrix} I_{80} \circ \begin{pmatrix} I \\ I \end{bmatrix} \end{bmatrix}$$

$$H_{2}O \longrightarrow sp \quad H_{104} \circ H$$

Due to steric hindrance in CCl<sub>4</sub>, C - Cl bond weakens as compared to Na - Cl bond.

**83.(ABCD)** SF<sub>4</sub>  $\longrightarrow$  Hybrid = 5, sp<sup>3</sup>d (one lone pair) ; BrCl<sub>3</sub>  $\longrightarrow$  Hybrid = 5, sp<sup>3</sup>d (two lone pair) XeOF<sub>2</sub>  $\longrightarrow$  Hybrid = 5, sp<sup>3</sup>d (two lone pair) ; BrF<sub>3</sub>  $\longrightarrow$  Hybrid = 5, sp<sup>3</sup>d (two lone pairs)

**84.(ABC)**  ${\rm SF}_4$  has only one lone pair of electrons on central atom S.

