- **46.(D)** Oxides of Trivalent metal are also called sesqui oxide
- **47.(A)** BF_6^{3-} does not exist due to unavailability of vacant d-orbitals.
- **48.(D)** Co-ordinate bond is called Dative Bond **49.(B)** $2 \text{NaBH}_4 + \text{I}_2 \longrightarrow \text{B}_2 \text{H}_6 + 2 \text{NaI} + \text{H}_2$
- **50.(C)** Refer NCERT $\mathbf{51.(C)} \qquad \mathbf{H_3BO_3 + H_2O} \Longrightarrow \mathbf{B(OH)_4^- + H^+}$
- **52.(B)** BH_3 exists as dimer due to absence of Back Bonding
- **53.(A)** BI_4^- does not exist due to steric hinderance lesser the steric hindrance, more will be the stability.
- **55.(C)** Oxides of Be and Al are amphoteric. **56.(A)** Refer NCERT
- $\textbf{57.(D)} \qquad \mathrm{SiF_4} + \mathrm{H_2O} {\longrightarrow} \mathrm{Si(OH)_4} {\overset{\Delta}{\longrightarrow}} \mathrm{SiO_2} {\overset{\mathrm{Na_2CO_3}}{\longrightarrow}} \mathrm{Na_2SiO_3}$
- **58.(D)** SiO $_2$: sp 3 -hybridised; CO $_2$: sp-hybridised; Graphite: sp 2 -hybridised
 % p character SiO $_2$ > Graphite > CO $_2$
- **59.(C)** R₃SiCl acts as chain stopping unit.
- **60.(D)** $BCl_3 + 3H_2O \longrightarrow B(OH)_3 + 3HCl$ $COCl_2 + H_2O \longrightarrow CO_2 + 2HCl$ $SiCl_4 + 4H_2O \longrightarrow Si(OH)_4 + HCl$