

# INORGANIC CHEMISTRY-III

❖ REPRESENTATIVE ELEMENTS –I

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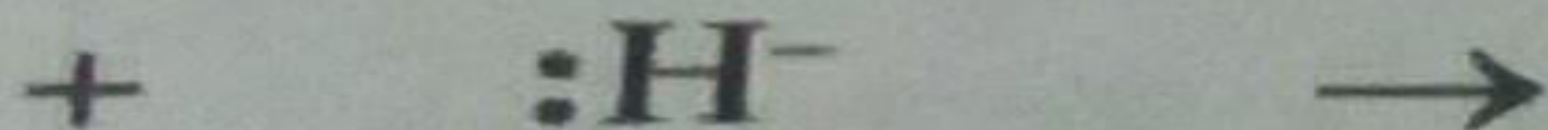
the Group 13 element  
of six electrons or  
by electron sharing.  
Early the lighter mem  
of valence electrons a  
13. forms covalen

## INORGANIC CHEMISTRY - II

### **Action with water**

Boron does not react with water even on heating, liberating hydrogen.

r electron-deficient o  
form their hydride an  
ceptor towards the h



r      Electron pair  
         donor

li metal salts sodium  
nd lithium aluminium

74

INORGANIC CHEMISTRY

DE (a)

**A comparison**

*Reason for the L*

In boron triha  
the molecules ha

$\text{O}_4\text{I}^-$  and

boron atom. In other words, the bond can occur through a  $\pi$  orbital of X. This is referred to as  $\pi$  back bonding. See Fig. 2.9.

2p

