

Which of the following statements are correct. Answer on the basis of Fig. 11.1.

- (i) The two bridged hydrogen atoms and the two boron atoms lie in one plane;
- (ii) Out of six B-H bonds two bonds can be described in terms of 3 centre 2-electron bonds.
- (iii) Out of six B-H bonds four B-H bonds can be described in terms of 3 centre 2 electron bonds;
- (iv) The four terminal B-H bonds are two centre-two electron regular bonds.

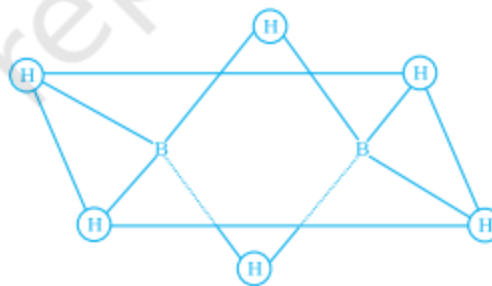


Fig. 11.1

ANS : i ii iv

Reason : see the structure of B₂H₆