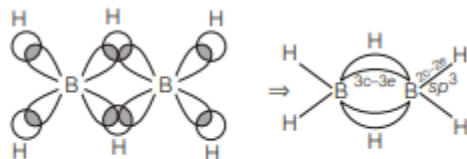


The number of 2-centre-2-electron and 3-centre-2-electron bonds in B_2H_6 , respectively, are (2019 Main, 10 Jan II)

- (a) 4 and 2 (b) 2 and 4
 (c) 2 and 2 (d) 2 and 1

The structure of B_2H_6 can be shown as :



In B_2H_6 , four 2-centre-2-electron ($2c - 2e$) bonds are present in the same plane and two 3-centre-2-electron ($3c - 2e$) bonds are present in another plane.