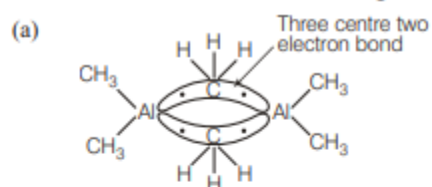


Among the following, the correct statement(s) is(are)

(2017 Adv.)

- (a)  $\text{Al}(\text{CH}_3)_3$  has the three-centre two-electron bonds in its dimeric structure
- (b) The Lewis acidity of  $\text{BCl}_3$  is greater than that of  $\text{AlCl}_3$
- (c)  $\text{AlCl}_3$  has the three-centre two-electron bonds in its dimeric structure
- (d)  $\text{BH}_3$  has the three-centre two-electron bonds in its dimeric structure



- (b)  $\text{BCl}_3$  is stronger Lewis acid than  $\text{AlCl}_3$  due to greater extent of  $p_\pi - p_\pi$  back bonding in  $\text{AlCl}_3$ .

