## Q7. Arrange the following hydrogen halides in order of their decreasing reactivity with propene.

- (a) HC1 > HBr > HI
- (b) HBr>HI>HCI
- (c) HI > HBr > HCI
- (d) HCI>HI>HBr

**Sol:** (c) The decreasing order of reactivity of hydrogen halides with propene is HI > HBr > HC1. As the size of halogen increases, the strength of H - X bond decreases and hence, reactivity increases.