

6. Among the following, the species having the smallest bond length is **[Online May 7, 2012]**
(a) NO^- (b) NO^+ (c) O_2 (d) NO

Ans. (b)

6. (b) NO^- (16) – B.O. – 2 O_2 (16) – B.O. – 2
 NO^+ (14) – B.O. – 3 NO (15) – B.O. – 2.5

Higher the bond order lower is the bond length. Hence NO^+ will have smallest bond.