

Covalent bonding

45. Which of the following statements regarding covalent bond is not true

 - The electrons are shared between atoms
 - The bond is non-directional
 - The strength of the bond depends upon the extent of overlapping
 - The bond formed may or may not be polar

46. If the electronic configuration of $M = 2,8,3$ and that of $A = 2,8,7$, the formula of the compound is

 - M_2A_3
 - MA_2
 - M_2A
 - MA_3

47. The table shown below gives the bond dissociation energies (E_{diss}) for single covalent bonds of carbon (C) atoms with element A, B, C and D. Which element has the smallest atoms

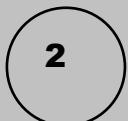
Bond	$E_{diss}(kJmol^{-1})$
C – A	240
C – B	328
C – C	276
C – D	485

 - A
 - B
 - C
 - D

48. If a molecule X_2 has a triple bond, then X will have the electronic configuration

 - $1s^22s^22p^5$
 - $1s^22s^22p^3$
 - $1s^22s^1$
 - $1s^22s^22p^1$





58. Which of the following is Lewis acid

- (a) BF_3
- (b) NH_3
- (c) PH_3
- (d) SO_2

59. Among the species : CO_2 , CH_3COO^- , CO , CO_3^{2-} , $HCHO$ which has the weakest carbon- oxygen bond

- (a) CO_2
- (b) CH_3COO^-
- (c) CO
- (d) CO_3^{2-}

60. Valency of sulphur in $Na_2S_2O_3$ is

- (a) Two
- (b) Three
- (c) Four
- (d) Six

