

Covalent bonding

1. The valency of sulphur in sulphuric acid is
 - (a) 2
 - (b) 4
 - (c) 6
 - (d) 8
2. The number of electrons involved in the bond formation of N_2 molecule
 - (a) 2
 - (b) 4
 - (c) 6
 - (d) 10
3. The electronic configuration of four elements are given in brackets
 $L(1s^2, 2s^2 2p^1)$; $M(1s^2, 2s^2 2p^5)$
 $Q(1s^2, 2s^2 2p^6, 3s^1)$; $R(1s^2, 2s^2 2p^2)$
 The element that would most readily form a diatomic molecule is
 - (a) Q
 - (b) M
 - (c) R
 - (d) L
4. In covalency
 - (a) Electrons are transferred
 - (b) Electrons are equally shared
 - (c) The electron of one atom are shared between two atoms
 - (d) None of the above
5. Which compound is highest covalent
 - (a) $LiCl$
 - (b) LiF
 - (c) $LiBr$
 - (d) LiI
6. The nature of bonding in graphite is
 - (a) Covalent
 - (b) Ionic
 - (c) Metallic
 - (d) Coordinate
7. Which of the following substances has giant covalent structure
 - (a) Iodine crystal
 - (b) Solid CO_2
 - (c) Silica
 - (d) White phosphorus
8. With which of the given pairs CO_2 resembles
 - (a) $HgCl_2$, C_2H_2
 - (b) $HgCl_2$, $SnCl_4$
 - (c) C_2H_2 , NO_2
 - (d) N_2O and NO_2
9. The electron pair which forms a bond between two similar non-metallic atoms will be
 - (a) Dissimilar shared between the two
 - (b) By complete transfer from one atom to other
 - (c) In a similar spin condition
 - (d) Equally shared in between the two
10. For the formation of covalent bond, the difference in the value of electronegativities should be
 - (a) Equal to or less than 1.7
 - (b) More than 1.7





20. Octet rule is not valid for the molecule

- (a) CO_2
- (b) H_2O
- (c) CO
- (d) O_2

