

CHEMICAL BONDING

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- 1. Which of the following molecules has both covalent and ionic bond
- (a) CH₃Cl (b)NH₄Cl (c) HCl (d) BeCl₂
- 2. Identify correct statement regarding NH3 and BF3
- (a) Both are Lewis acid (b) Both are iso structural
- (c) Both are Lewis base (d) Have different values of dipole moment
- 3. Identify the molecule having sideways overlapping of atomic orbitals
- (a) CH₄ (b) CO₂ (c) NH₃ (d) H₂O
- 4. Which of the following chemical species is most stable?
 - (a) O_2 (b) O_{2+} (c) O_{2-} (d) O_{2-}
- 5. The shape of XeF4 molecule according to VSEPR theory is
- (a) Square planar (b) Square pyramid (c) Tetrahedral (d) Pyramidal

II. Fill in the Blanks

1. The energy required to completely separate one mole of solid ionic compound into gaseous constituent ions is called
2. Among alkali metal ionsion has highest polarizing power
3. Isoelectronic molecules and ions have identical
4. A triple covalent bond consists of sigma and pi bonds.