

73. In alkaline medium, ClO_2 oxidises H_2O_2 to O_2 and is reduced to Cl^- , then how many mole of H_2O_2 will be oxidised by one mole of ClO_2 ?
- (A) 1.0 (B) 1.5 (C) 2.5 (D) 3.5
74. MnO_4^{2-} (1 mole) in neutral aqueous medium disproportionates to : Ⓜ
- (A) $\frac{2}{3}$ mole of MnO_4^- and $\frac{1}{3}$ mole of MnO_2 (B) $\frac{1}{3}$ mole of MnO_4^- and $\frac{2}{3}$ mole of MnO_2
- (C) $\frac{1}{3}$ mole of Mn_2O_7 and $\frac{1}{3}$ mole of MnO_2 (D) $\frac{2}{3}$ mole of Mn_2O_7 and $\frac{1}{3}$ mole of MnO_2
75. **Statement 1:** Equivalent weight of NH_3 in the reaction $\text{N}_2 + \text{H}_2 \longrightarrow \text{NH}_3$ is $\frac{17}{3}$ while that of N_2 is $\frac{28}{6}$.
- Statement 2 :** Equivalent weight = $\frac{\text{Molecular weight}}{\text{number of } e^- \text{ lost or gained}}$
- (A) Statement-1 is True, Statement-2 is True and Statement-2 is a correct explanation for Statement-1.
- (B) Statement-1 is True, Statement-2 is True and Statement-2 is NOT a correct explanation for Statement-1.
- (C) Statement-1 is True, Statement-2 is False.
- (D) Statement-1 is False, Statement-2 is True.