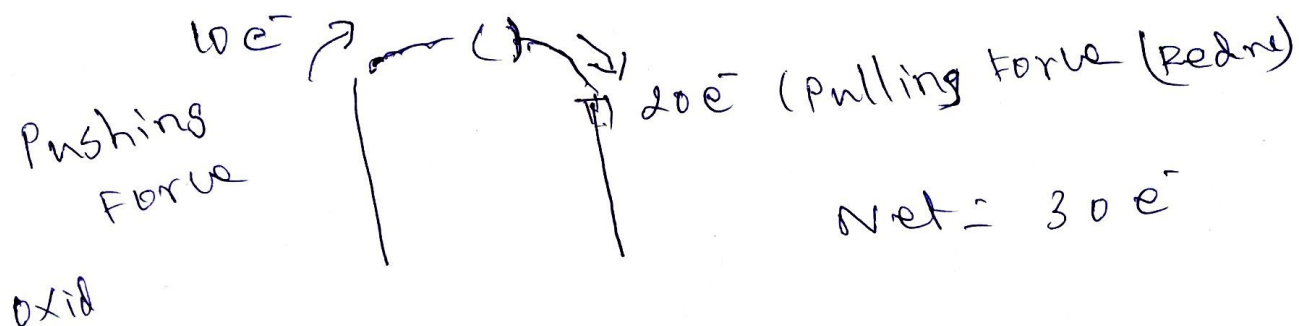


$$E_{\text{cell}} = E_c - E_A \quad (\text{or}) \quad E_{\text{RH}} - E_{\text{LHS}}$$

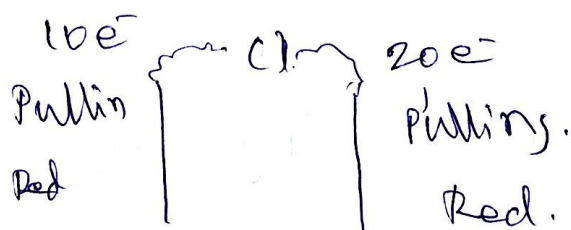
$$= \left. \begin{array}{l} \text{Redn} \\ \text{Potnl} \\ \text{cath} \end{array} \right\} - \left\{ \begin{array}{l} \text{Redn} \\ \text{potnl} \\ \text{Anode} \end{array} \right.$$



$$= 10 + 20 = 30e^-$$

$$x \text{ pushing Force (Oxid)} = -x \text{ Pulling Force (Red)}$$

For instance



$$\text{Net} = 20 - 10 = 10e^-$$

$$= E_c - E_A$$

Hence

$$EMF = E_{\text{cell}} = E_c - E_A$$