

Worksheet: Redox Reactions

IB · Class 11 · Chemistry · 5 questions · 17 marks

Name: _____

Date: _____

Score: _____ / 17

Q1. What is a disproportionation reaction? Give an example. *[2 marks]*

Q2. Assign the oxidation number of Mn in KMnO_4 and Cr in Cr_2O_3 . *[2 marks]*

Q3. Calculate E_{cell} for $\text{Zn} + \text{Cu}^{2+} \rightarrow \text{Zn}^{2+} + \text{Cu}$ ($E_{\text{Zn}} = -0.76 \text{ V}$, $E_{\text{Cu}} = +0.34 \text{ V}$). *[3 marks]*

Q4. Balance $\text{Fe}^{2+} + \text{Cr}_2\text{O}_7^{2-} \rightarrow \text{Fe}^{3+} + \text{Cr}^{3+}$ in acidic medium. *[5 marks]*

Q5. Balance $\text{MnO}_4^- + \text{I}^- \rightarrow \text{MnO}_2 + \text{I}_2$ in basic medium. *[5 marks]*
