

## Worksheet: Redox Reactions

Gujarat State Board · Class 11 · Chemistry · 5 questions · 17 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 17

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

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**Q2.** Assign the oxidation number of Mn in  $\text{KMnO}_4$  and Cr in  $\text{Cr}_2\text{O}_3$ . [2 marks]

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**Q3.** Calculate  $E_{\text{cell}}$  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]

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

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

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