

Brett Robbins Academic Consulting

Chemistry 30 Practice Test

Unit B: Electrochemical Changes

5 Questions

Original practice questions written to the Alberta curriculum, in the style of past diploma examinations. Work through each question, then check your answers with the key at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, contact Brett for clarification.

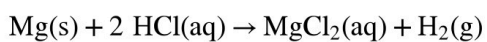
Question 1

The oxidation number of manganese in $\text{KMnO}_4(\text{s})$ is

- A) +2
- B) +5
- C) +7
- D) -7

Question 2

In the reaction represented by the equation

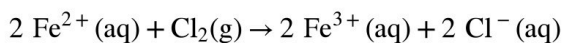


the species that is oxidized is

- A) $\text{Mg}(\text{s})$
- B) $\text{H}^+(\text{aq})$
- C) $\text{Cl}^-(\text{aq})$
- D) $\text{H}_2(\text{g})$

Question 3

In the reaction represented by the equation

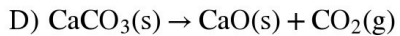
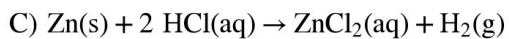
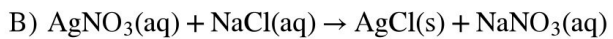
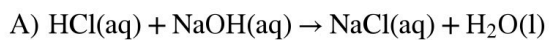


the reducing agent is

- A) $\text{Cl}_2(\text{g})$
- B) $\text{Fe}^{2+}(\text{aq})$
- C) $\text{Fe}^{3+}(\text{aq})$
- D) $\text{Cl}^-(\text{aq})$

Question 4

Which of the following equations represents a redox reaction?



Question 5

The oxidation number of nitrogen in $\text{HNO}_2\text{(aq)}$ is + ____

Record the single digit that completes the oxidation number.

Answer Key

- | | | |
|------|------|------|
| 1. C | 3. B | 5. 3 |
| 2. A | 4. C | |

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