NUNAVUT CHEMISTRY 30 · NUNAVUT

Nunavut Chemistry 30

Practice Test

Unit B: Electrochemical Changes

5 Questions

Original practice test based on the Nunavut curriculum. Work through each question, then check your answers at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

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Question 1

The oxidation number of sulfur in $Na_2S_2O_3(s)$ is

A) +6

B) +4

C) +2

D) −2

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Question 2

In the reaction represented by the equation

$Cu(s) + 2\ Ag^+(aq) \rightarrow Cu^{2+}(aq) + 2\ Ag(s)$

the species that is reduced is

A) Cu(s)

B) $Ag^+(aq)$

C) $Cu^{2+}(aq)$

D) Ag(s)

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Question 3

Which of the following equations does NOT represent a redox reaction?

A) $CaCO_3(s) + 2\ HCl(aq) \rightarrow CaCl_2(aq) + H_2O(l) + CO_2(g)$

B) $CH_4(g) + 2\ O_2(g) \rightarrow CO_2(g) + 2\ H_2O(g)$

C) $2\ Mg(s) + O_2(g) \rightarrow 2\ MgO(s)$

D) $Fe_2O_3(s) + 3\ CO(g) \rightarrow 2\ Fe(s) + 3\ CO_2(g)$

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Question 4

Which of the following statements about an operating electrolytic cell is correct?

A) Reduction occurs at the anode.

B) The cathode is connected to the positive terminal of the power supply.

C) Electrons flow through the electrolyte from the anode to the cathode.

D) An external power source drives a reaction that would otherwise be nonspontaneous.

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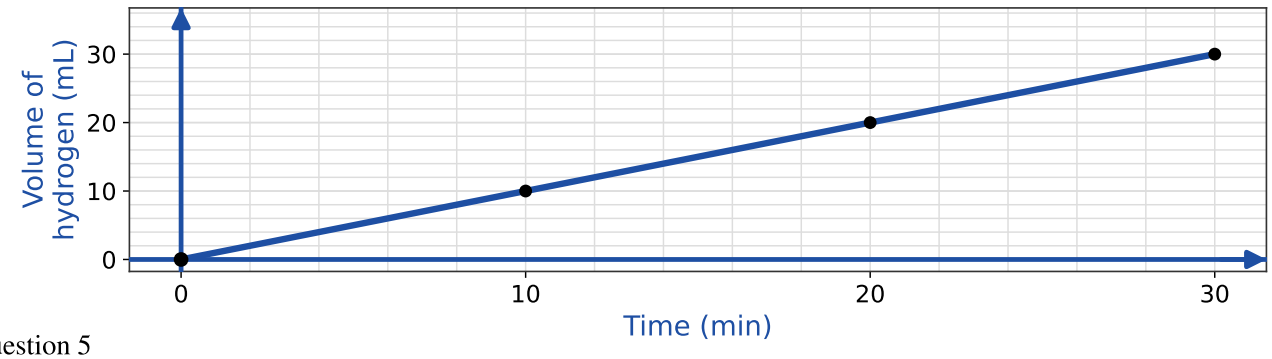

Question 5

The graph shows the volume of hydrogen gas collected during electrolysis over time. The volume collected after 20 minutes, in millilitres, is ____.

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ANSWER KEY

1. C
2. B
3. A
4. D
5. 20.0

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