ALBERTA CHEMISTRY 30 · UNIT B · 5 QUESTIONS

Electrochemical Changes — Practice Test

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.

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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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** $Ag(s)$

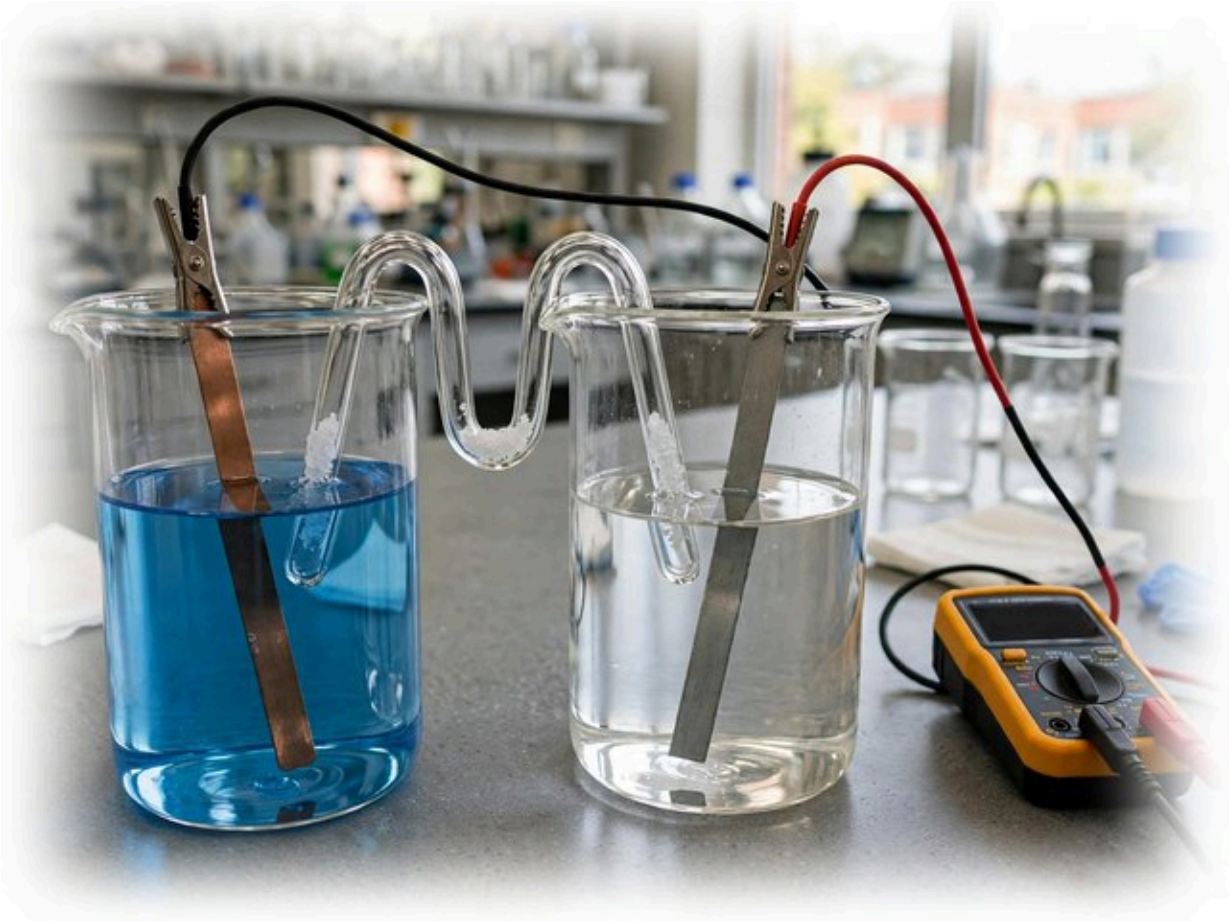
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3 **Which of the following equations does NOT represent a redox reaction?**

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



A Reduction occurs at the anode.

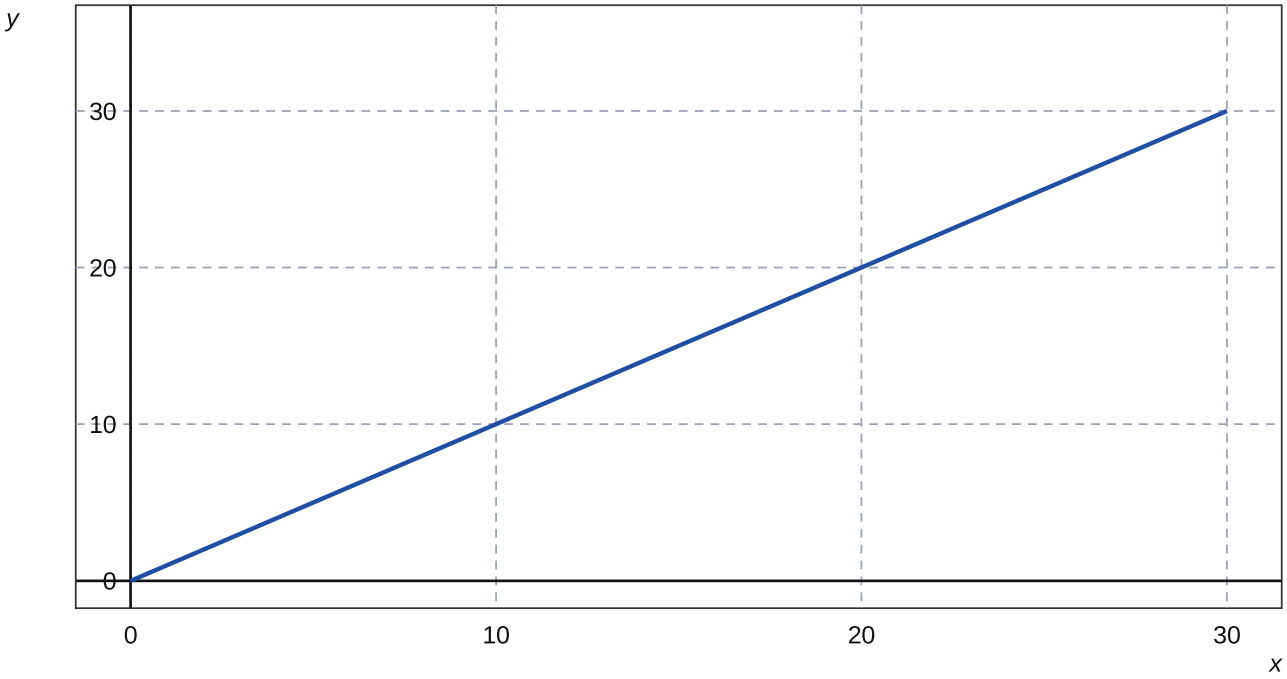
B The cathode is connected to the positive terminal of the power supply.

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



ANSWER

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ANSWER KEY

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

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