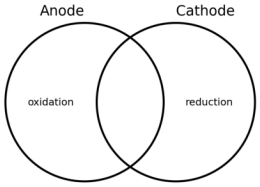
YUKON CHEMISTRY 12 (MCH--12) · UNIT D · 5 QUESTIONS

Electrochemistry — 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 diagram shows two sets: anodes and cathodes. Which statement belongs in the overlap of both sets**



- **A** oxidation occurs there, where a substance loses electrons and its oxidation number rises
- **B** reduction occurs there
- **C** they are electrodes where a half-reaction occurs
- **D** electrons leave there

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2 **Rusty iron nails and an old iron bar covered in orange-brown rust. In the half-reaction $Fe^{2+} \rightarrow Fe^{3+} + e^{-}$, iron is**



A oxidized

B reduced

C neither

D a catalyst

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3 **In the half-reaction $Cl_2 + 2e^-$ → $2Cl^-$, chlorine is**

A oxidized

B neither

C a catalyst

D reduced

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4 **In the reaction $Mg + 2Ag^+$ → $Mg^{2+} + 2Ag$, the oxidizing agent is**

A Mg

B Ag^+

C Mg^{2+}

D Ag

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5

Given $E°(Pb^{2+}/Pb) = -0.13$ V and $E°(Ag^{+}/Ag) = +0.80$ V, the cell potential for $Pb + 2Ag^{+} \rightarrow Pb^{2+} + 2Ag$, in volts, is

A 0.67

B 0.80

C 1.06

D 0.93

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ANSWER KEY

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

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