

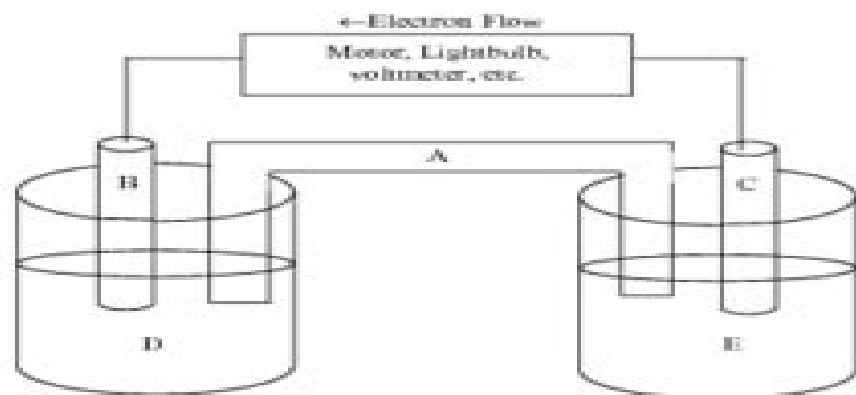
Honors Chemistry

Electrochemistry Problems

Name _____

Date _____ Period _____

The voltaic cell shown above is composed of the metals Nickel (Ni) and Calcium (Ca) and their nitrate salts. Assume both metals are 2^+ in their ionic state. Pay attention to the direction of electron flow. Answer the following questions using the letters indicated above. The same letter may be used more than once.



1. Salt bridge
2. Nickel electrode
3. Calcium nitrate solution
4. Calcium electrode
5. Nickel nitrate solution
6. Anode
7. Cathode
8. Electrode where oxidation occurs
9. Electrode where reduction occurs
10. KNO_3
11. Electrode that gets smaller with time
12. Solution that receives positive ions from the salt bridge
13. If the reduction potentials for Ni and Ca are -0.25V and -2.87V respectively, what is the voltage of the cell?

Write a condensed cell diagram for this reaction.

Write the oxidation half reaction for the cell.

Write the reduction half reaction for the cell.

For the following five questions identify the half reactions as either oxidized or reduced

14. $\text{Fe}^{2+} \rightarrow \text{Fe}^{3+} + 1e^-$
15. $\text{Cu} \rightarrow \text{Cu}^{2+} + 1e^-$
16. $\text{Cl}_2 + 2e^- \rightarrow 2\text{Cl}^-$
17. $\text{Zn} \rightarrow \text{Zn}^{2+} + 2e^-$
18. $2\text{N}^{3-} \rightarrow \text{N}_2 + 6e^-$
19. For the reaction

$$2\text{Mn}^{2+} + 5\text{Cl}_2 \rightarrow 2\text{Mn}^{3+} + 10\text{Cl}^-$$
 which species is the reducing agent? Explain.

High School Electrochemistry Questions

M Mark



High School Electrochemistry Questions:

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **High School Electrochemistry Questions**

In a world inundated with displays and the cacophony of instantaneous transmission, the profound energy and psychological resonance of verbal artistry often disappear in to obscurity, eclipsed by the regular assault of noise and distractions. Yet, set within the lyrical pages of **High School Electrochemistry Questions**, a charming perform of fictional brilliance that pulses with raw thoughts, lies an memorable trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, that exciting opus guides visitors on a mental odyssey, delicately exposing the latent possible and profound influence stuck within the complex web of language. Within the heart-wrenching expanse of this evocative evaluation, we can embark upon an introspective exploration of the book is main themes, dissect its fascinating publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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