

**Electrochemistry questions that might be on  
the Chemistry Midterm in addition to  
possible quiz questions from Chapters 8-13**

1. (8 points) Name 4 industrial applications/problems that involve electrochemistry (do not include combustion):  
a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_ d. \_\_\_\_\_
2. (4 points) Electrochemistry involves the conversion between \_\_\_\_\_ and their \_\_\_\_\_.
3. (2 points) When we created hydrogen and oxygen from water, we were using the electrochemical process called \_\_\_\_\_.
4. (2 points) What happened when we placed an iron nail into a  $\text{CuSO}_4$  solution?
5. (4 points) The rusting of iron requires \_\_\_\_\_ and \_\_\_\_\_.
6. (2 points) Batteries are made from electrodes made of different conducting materials surrounded by an \_\_\_\_\_.