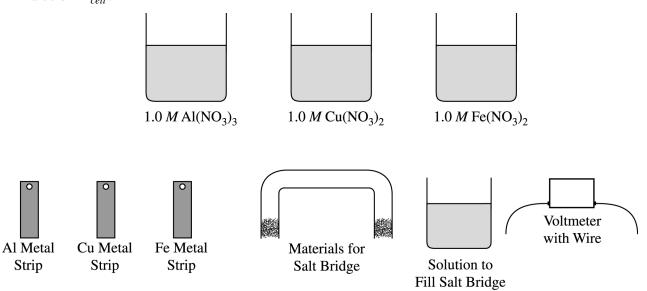
2003 AP® CHEMISTY FREE-RESPONSE QUESTIONS (Form B)

- 6. Answer the following questions about electrochemistry.
 - (a) Several different electrochemical cells can be constructed using the materials shown below. Write the balanced net-ionic equation for the reaction that occurs in the cell that would have the greatest positive value of E_{cell}° .



- (b) Calculate the standard cell potential, E_{cell}° , for the reaction written in part (a).
- (c) A cell is constructed based on the reaction in part (a) above. Label the metal used for the anode on the cell shown in the figure below.

