## Quiz 19.3 – The Nernst Equation

Name:
A cell is constructed which reduces $\rm Pb^{\scriptscriptstyle 2+}$ to Pb and oxidizes Al to Al $^{\rm 3+}$ and operated at $25.00^{\circ}C$
Question 1
Find $E_{cell}^{\circ}$ for this cell
Question 2
Based on $E_{cell}^{\circ}$ , find $\Delta G^{\circ}$ for the reaction in this cell
Question 3
Based on $E_{cell}^{\circ}$ , find $K$ for the reaction in this cell
Question 4
Find $E$ for this cell if the actual concentrations are: $[{ m Pb^{2+}}]=0.250~M$ and $[{ m Al^{3+}}]=0.125~M$
Question 5
Will the voltage increase or decrease if the cell is placed in the refrigerator?

## Good Bones

## By Maggie Smith

Life is short, though I keep this from my children. Life is short, and I've shortened mine in a thousand delicious, ill-advised ways, a thousand deliciously ill-advised ways I'll keep from my children. The world is at least fifty percent terrible, and that's a conservative estimate, though I keep this from my children. For every bird there is a stone thrown at a bird. For every loved child, a child broken, bagged, sunk in a lake. Life is short and the world is at least half terrible, and for every kind stranger, there is one who would break you, though I keep this from my children. I am trying to sell them the world. Any decent realtor, walking you through a real shithole, chirps on about good bones: This place could be beautiful, right? You could make this place beautiful.