

Quiz 19.2 – Electrochemical Cells

Name: _____

Question 1

Write the cell notation for a voltaic cell made by reducing $\text{Fe}^{2+}(\text{aq})$ to $\text{Fe}(\text{s})$ and oxidizing $\text{Al}(\text{s})$ to $\text{Al}^{3+}(\text{aq})$

Question 2

Sketch the cell, labeling:

- Anode
- Cathode
- Salt Bridge
- Direction of electron flow
- Direction of redox reactions
- Direction of ion flow

Question 3

Give the standard cell potential for this cell

Question 4

Is this a voltaic cell, or an electrolytic cell?

O Me! O Life!

By Walt Whitman

Oh me! Oh life! of the questions of these recurring,
Of the endless trains of the faithless, of cities fill'd with the foolish,
Of myself forever reproaching myself, (for who more foolish than I, and who more faithless?)
Of eyes that vainly crave the light, of the objects mean, of the struggle ever renew'd,
Of the poor results of all, of the plodding and sordid crowds I see around me,
Of the empty and useless years of the rest, with the rest me intertwined,
The question, O me! so sad, recurring—What good amid these, O me, O life?

Answer.

That you are here—that life exists and identity,
That the powerful play goes on, and you may contribute a verse.