**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_**

**AP Chemistry**

**Equilibrium in Your Body Writing Prompt**

Use the following (or additional) sources to answer the following questions:

<http://fmss12ucheme.wordpress.com/2013/05/06/hemoglobin/>

<http://www.ausetute.com.au/blood.html>

<http://www.wonderwhizkids.com/index.php/chemistry/chemical-reactions/chemical-equilibrium>

<http://www.brynmawr.edu/chemistry/Chem/Chem104lc/hemoglobin.html>

1. How is oxygen transported in the body and why is this important?
2. How does oxygen bind to hemoglobin?
3. Why is this considered a reversible reaction?
4. Name at least 3 ways you can shift this equilibrium and how the equilibrium is shifted.
5. How can increased exposure to carbon monoxide cause problems with transporting oxygen in the blood?
6. How do low levels of oxygenated blood affect the human body?

You may type or neatly handwrite your responds. Your response should be approximately 1 page in length (double spaced, 1’ margins)