

General Chemistry II Problem Set 5

1. Atkins 13.60

2. Atkins 13.64

3. Atkins 13.66

4. Atkins 13.72

5. Atkins 13.74

6. For an enzyme-catalyzed reaction, calculate the fraction of enzyme sites filled with substrate when the substrate concentration is  $\frac{2}{3}$  of the Michaelis constant ( $K_M$ ).

7. Medchem text Chapter 3, Question 2; draw a diagram of the active site and fully explain the specific interactions that you depict.

