CSCI 5832 Quiz 1

Name: ________________________

On my honor, as a University of Colorado at Boulder student, I have neither given nor received unauthorized assistance on this work. ________________________

1. **(5 points)** What are semantic selection restrictions?

2. **(25 Points)** Answer the following questions using the following sentence as an example: 
   \textit{Tom promised to go to Miami.}
   
   a) Give a standard CFG parse for this sentence.
   
   b) Give an event-oriented First Order Logic representation for the meaning of this sentence.
   
   c) Describe a set of semantic attachments that would allow the grammar rules you used in part a) to produce the representation given in b).

3. **(10 Points)** Give a thematic role analysis for each of the following sentences:
   
   a) Sally sent the book to Florida.
   
   b) The book slid from the table.
   
   c) The sun melted the snow.
   
   d) The temperature fell 20 degrees.

4. **(10 Points)** Describe how you approach the following task: build a system to extract birth date information from natural language newspaper text.

5. **(15 Points)** Describe a way of using WordNet to improve the precision of a standard vector space information retrieval system.