CSCI 5832 Spring 2008 Quiz 3

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) True or False:** It snowed where you were yesterday.

2. **(5 points)** Give an event-oriented FOL representation to the following sentence.

    John requested the flight to Chicago.

3. **(10 points)** Give semantic attachments for the verb *book* and the rule *VP -> V NP NP* as they are used in examples such as *They booked John a direct flight.* The attachment for these rules should be directed at producing an event-oriented FOL representation. Assume the usual set of grammar rules.

4. **(5 Points) True or False:** Supervised machine learning approaches to WSD typically entail training one classifier for each ambiguous entry in a lexicon.

5. **(15 points)** Consider the news article on the following page. Describe *three kinds* of information that could be gleaned from this article using standard information extraction techniques. Describe the technique used and the likely sources of evidence that would be used. Use the back.

6. **(10 points)** In the second paragraph, the event is referred to as "A third fire", "It", and "That blaze". Use the back.
    a) Briefly describe a method that could be used to determine the antecedent of the "it".
    b) Briefly describe a method that could be used establish that these three mentions all refer to the same entity.

ORDWAY—The Fort Carson blaze, about 60 miles south of Denver, was only 10 percent contained by midday Wednesday, but the weather turned cold by evening and snow began to fall. The cause of the fire wasn't known.

A third fire was burning near Carbondale in the western Colorado mountains, about 120 miles west of Denver. It was about 70 percent contained, and most area residents were returning to their homes Wednesday. That blaze, too, was under investigation.