Name:	
On my honor, as a University of Colorado at Boulder student, I have neither given received unauthorized assistance on this work	101

- 1. (5 points) What is your favorite month now?
- **2. (5 points) True or False:** Translating natural language text into a logical form such as First Order Logic is *by itself* sufficient to permit valid semantic processing (eg. Determining truth, supporting valid inference, etc.).
- 3. (5 Points) Give a standard semantic attachment for the ditransitive grammar rule: VP → VNP NP (eg. as in the verb phrase sent Mary a letter) in the context of compositional syntax-driven approach to semantic analysis. I don't want a grammar, and I don't want the verb semantics --- just the attachment for the single rule given above.
- **4. (5 Points)** Describe a major difficulty with detecting and normalizing mentions of proteins and genes in biological articles.
- **5. (5 Points) True or False:** Wordnet contains relations that constitute a class inheritance hierarchy (ISA hierarchy) over the words.
- **6. (15 Points)** Wordnet contains **part-of** relations among the words in the database (eg. Part-of(wheel, car)). Assume you wanted to increase the English Wordnet coverage. Describe a method for automatically doing that, given access to a large amount of representative English text. (Use the back).
- **7. (10 Points)** Consider the setting where we're translating from language *F* to English using the standard statistical approach. Describe concisely the translation probabilities that are associated with individual words (ie. What does the lexical translation probability table consist of?)