This is meant to be study guide. There may not be questions from every point. There may be questions that combine more than one point.

- 1. The notions of a morpheme, allomorphy and morphological process.
- 2. Understanding of morphological processes discussed in notes. You do not need to memorize the processes, just make sure you understand how they work.
- 3. Basic concepts of formal language theory. The notions of alphabet, language, and strings.
- 4. Basic notions of finite state automata.
- 5. What makes a language regular.
- 6. How to construct regular expressions for a given language.
- 7. How to design a dfa and/or nfa for a given language.
- 8. Being able to describe a language that would be recognized given a dfa, nfa, or regular expression. This is the reverse of the two previous points.
- 9. What does it mean to take the intersection, concatenation, union and Kleene star of a language.
- 10. Being able to tell whether one can use the pumping theorem for fal's to decide whether a language is a fal or not; and using it if it is usable.
- 11. Designing a finite state automaton to model morphotactics; like we did in hw4.
- 12. How to decide on the word class a word belongs in.
- 13. Being able to draw the possible constituent trees for a given natural language expression and a grammar.
- 14. Given a set of grammatical and ungrammatical sentences as data, being able to identify the constituent structure of the grammatical sentences.
- 15. Basic notions about grammars and languages they generate, such as alphabet, start symbol, terminal versus non-terminal symbols, rewrite rule, derivation, constituent tree, and so on. Especially important is the distinction between grammar, derivation, parse (or constituent structure) tree and the language generated by the grammar.
- 16. Given a context-free grammar, being able to describe the language it generates.
- 17. Being able to write a context-free grammar for a given language, and being able produce derivations and parse (constituent structure) trees.