

Foundations of Language Science and Technology I

Indicative Sample Questions for the Final Exam WS 04/05

1. What is the difference between linguistic competence and linguistic performance?
2. What do we expect of a performance model?
3. How many syntactically correct readings do you detect in the following sentence?

The page of the queen on the balcony observed the hunter with binoculars.

4. Which components of a classical sequential (pipelined) NLP system need to be employed for a true text-understanding system. List them in the order of their contributions.
5. Please provide one example each of homographs, lexical ambiguity, semantic ambiguity and pragmatic ambiguity. Please provide two examples of lexical ambiguity in a language different from English.
6. Give an example of a garden path sentence.
7. Which constraints or preferences applied in coreference resolution. Briefly explain what they are.
8. What are rhetorical relations and how are they signaled in discourse? Please give 3 examples and briefly describe them
9. Identify discourse segments and rhetorical relations in the example discourse below. What meaning do the rhetorical relations contribute?
John applied for a new job although he was still employed at ATT. He was invited to talk to a clerk in the personnel department. She interviewed him for two hours because he was considered for a management position. Two weeks later John received a polite rejection letter.
10. Mark the utterances that give grounding feedback in the following dialogue and describe briefly what grounding functions they have.

Here you will be given a dialogue.

11. Parse the following sentence up to word 6 using the Early Algorithm.
Fill in the chart items. For each item name the component of the algorithms that produced the item.
12. For the following set of feature terms, state which subsumption relations hold among the terms.
13. Unify the following conjunctive and disjunctive feature structures.