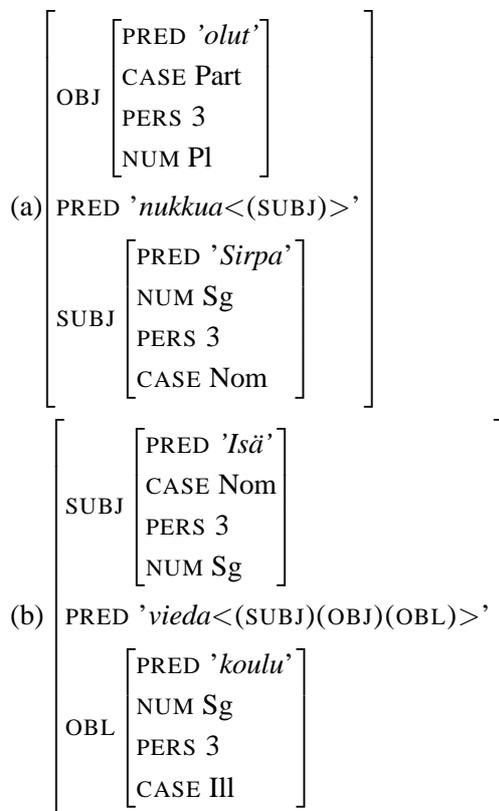


Syntactic Theory WS09-10

Test Exam

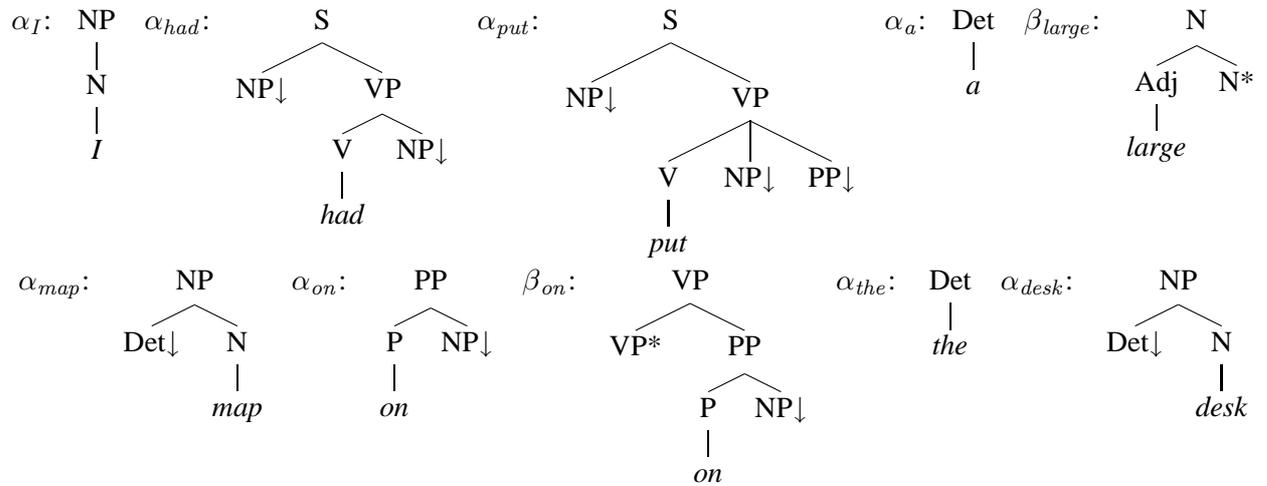
Exam Length: 120 minutes
(No reference material shall be used during the exam)

1. List three types of adjoining constraints in tree-adjoining grammar.
2. Consider the f-structures below. For those f-structures that are not well-formed, state which principle is violated:



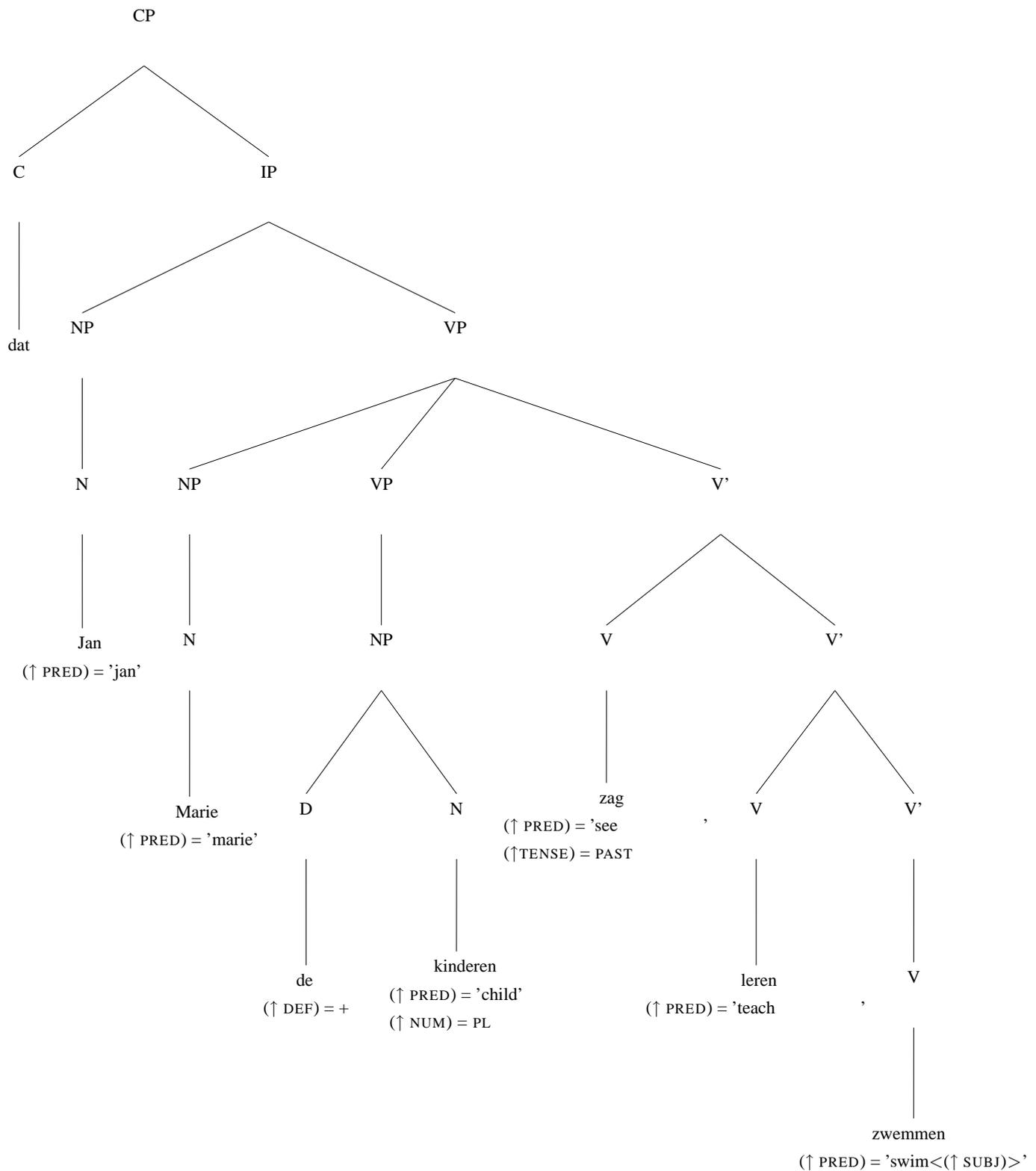
3. What is an existential constraint? Give and briefly explain an example.
4. Explain why, according to some syntacticians, phrase structures should not be part of a syntactic representation.
5. What corresponds to HPSG's head feature principle in LFG? How is this formalized?
6. From a formal point of view, what does an HPSG signature consist of? Name the two key formal components of a signature.
7. What are the two ways of introducing slashed elements when treating the unbounded dependency constructions in HPSG?
8. With the given TAG, try to analyze the following sentences (draw the derived tree and derivation tree)

- (1) I had a large map on the desk.
 (2) I put a large map on the desk.



9. Consider the following PS-rules and c-structure:

- CP → C IP
- IP → NP VP
- VP → (NP) (VP) (V')
- V' → V (V')
- NP → (D) N



This c-structure represents the following (subordinate) sentence:

...dat Jan Marie de kinderen zag leren zwemmen.

...that Jan Marie the children saw teach swim.

'...that Jan saw Marie teach the children to swim'

- (a) Complete the lexical entries (including predicate values!) for *zag* (saw) and *leren* (teach), so that they correctly capture functional or anaphoric control (use English to test whether the verbs are raising or equi)

- (b) Provide the syntactic correspondences in the c-structure. Make sure all nodes are annotated appropriately
- (c) Provide the f-structure of the sentence
- (d) Annotate the PS-rules, making sure they could also capture the following sentences:

...dat Jan Marie de kinderen leerde zien zwemmen.

...that Jan Marie the children taught see swim.

'...that Jan taught Marie to see the children swim'

...dat Jan Marie Paul de kinderen zag helpen leren zwemmen.

...that Jan Marie Paul the children saw help teach swim.

'...that Jan saw Marie help Paul teach the children to swim'

Tip: start with the first given sentence, and then see whether additions or changes are required to capture the other two sentences

10. For the following sentence, determine whether the verb “*keep*” is an equi- or raising verb. Briefly explain why. And draw an HPSG analysis for the entire sentence.

(3) Mary *keeps* working hard.