

2003 Paper 9 Question 13

Natural Language Processing

(a) Define the following terms, as they are used in grammar formalisms for natural language:

(i) feature structure

(ii) feature structure subsumption

(iii) feature structure unification

[8 marks]

(b) Discuss the advantages and disadvantages for NLP applications of grammar formalisms that use feature structures compared with context free grammars.

[12 marks]