2003 Paper 13 Question 11

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]