

**2006 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**  
**IV B.TECH II SEMESTER DEGREE EXAMINATIONS**  
**NATURAL LANGUAGE PROCESSING**  
**(COMPUTER SCIENCE ENGINEERING)**

APRIL/MAY 2006

TIME : 3 HOUR  
MARK : 80

Answer any FIVE Questions All Questions carry equal marks

1. (a) Discuss in detail the different forms of Knowledge relevant for Natural Language Understanding?  
(b) Explain Syntax, Semantics & Pragmatics.
2. (a) Discuss in detail with examples?
  - i. Pronoun & its types
  - ii. Properties of Verb(b) Discuss fore-tracking parser & Backtracking Parser?
3. Describe in detail several sources of knowledge that are used in decoding the information.
4. Natural Language Understanding requires a capability to represent and reason about knowledge of the world? Justify?
5. Explain:
  - (a) Coherence
  - (b) Co reference
  - (c) Discourse segment
  - (d) Sub ordinary relations & coordinating relations
6. Describe in detail with an example
  - (a) Indefinite noun phrases
  - (b) Definite Noun Phrases
7. Explain with Examples
  - (a) Simplification Rules
  - (b) Translation Rules
8. (a) List & Explain the choices made by the generations systems?  
(b) Explain with diagram the reference Archicture for NLG systems.

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