

Roll No.

Total No. of Questions : 08]

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Paper ID [CS508]

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M.Tech. (Sem. - 2nd)

NATURAL LANGUAGE PROCESSING (CS - 508)

MAY 2008

Time : 03 Hours

Maximum Marks : 100

Instruction to Candidates:

- 1) Attempt any **Five** questions.
- 2) All questions carry equal marks.

- Q1)** What are the advanced issues in computational morphology? Describe with suitable examples.
- Q2)** (a) What are the various applications of natural language processing? Explain.
(b) Write a transducer (s) for the consonant doubling spelling rule in English.
- Q3)** Discuss the following:
(a) Importance of Chomsky Hierarchy in NLP.
(b) Levels of linguistics processing.
- Q4)** Discuss how you would augment a parser to deal with input that may be incorrect, such as a spelling errors or misrecognitions.
- Q5)** Write a finite-state automaton for a dialogue manager for checking your bank balance and withdrawing money at an automated teller machine.
- Q6)** (a) Discuss the Earley-style semantic analyzer with an example.
(b) Why the processing of natural languages with computer is difficult? Explain with suitable example.
- Q7)** Describe the following with suitable example:
(a) Sectional restrictions.
(b) Unification method.

Q8) Write short notes on the following:

- (a) Language processors.
- (b) Methods for Ambiguity resolution.
- (c) CFG.
- (d) Part-of-speech tagging.

