

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 110856

Roll No.

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B. TECH.

Theory Examination (Semester-VIII) 2015-16

NATURAL LANGUAGE PROCESSING

Time : 3 Hours

Max. Marks : 100

Section - A

1. Attempt all questions from this section. (2×10=20)

- Explain terms baseline and ceiling in evaluation of NLP systems.
- Explain part-of-speech tagging with example.
- Differentiate between Left associative grammar and Ambiguous grammars.
- Define pragmatics? Give example.
- Explain deterministic parsing for human preferences in NLP.

(1)

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- www.FirstRanker.com
- (i) Represent a noun phrase segment of a transition network.
 - (j) Define the word senses and ambiguity with suitable example.

Section-B

2. Attempt any five questions from this section.

(5×10 = 20)

- (a) Give an algorithm for pronoun resolution and explain it with an example.
- (b) Investigate two of the more popular search engines and determine with kind of morphological analysis.

- www.FirstRanker.com
- (f) Explain the graph models and optimization techniques used in semantics with example.
 - (g) "Kathy Jumped the horse" Parse the above sentence using top-down & bottom-up Methods.

Section-C

Note : Attempt any two questions from this section.

(15×2=30)

3. Discuss in detail the syntactic & semantic constraints on Conference.
4. Write short notes on :
 - (a) Human preferences in parsing
 - (b) Natural language processing grammars



5. Write short notes on:

- (a) Probabilistic language processing
- (b) Probabilistic context-free grammars

(4)