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

Paper ID : 110856   Roll No. ☐☐☐☐☐☐☐☐☐☐

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)

   (a) Explain terms baseline and ceiling in evaluation of NLP systems.

   (b) Explain part-of-speech tagging with example.

   (c) Differentiate between Left associative grammar and Ambiguous grammars.

   (d) Define pragmatics? Give example.

   (e) Explain deterministic parsing for human preferences in NLP.

(i) Represent a noun phrase segment of a transition net-work.

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(j) Define the word senses and ambiguity with suitable ex-ample.

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.

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ral language understanding.

(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 Con-ference.

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)

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