

BE INSEM Aug 2017

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SEAT No. :

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B.E./Insem.-590-A

B.E. (Computer Engineering)

MULTIDISCIPLINARY NATURAL LANGUAGE PROCESSING

(2012 Pattern) (Elective -II) (Semester-I)

: 1 Hour]

uctions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4 and Q.5 or Q.6.
- 2) Figures to the right indicate full marks.
- 3) Assume suitable data, if necessary.

[Max. Marks : 30

a) What is probabilistic parsing? Explain Forward Backward probability. [5]

b) Describe robust and scalable parsing on noisy text. [5]

OR

a) What is meant by Scope Ambiguity? Explain how statistical modeling is done for a ambiguity resolution. [5]

b) What is Metaphors? Explain various models of metaphors. [5]

a) Explain EM algorithm in Natural Language Processing with example.[5]

b) Explain Maximum Entropy Model for Text Categorization. [5]

OR

a) Explain in brief, the need of discourse processing. Also explain the role of temporal segmentation in discourse processing. [5]

b) What is the use of Named Entities in recognition and classification of text in Natural Language Processing. [5]

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B.E./Insem.-590 -A

Q5) a) Explain Finite State Morphological Parsing with Example. [5]

b) Describe Finite State Machine based morphology in detail. [5]

OR

Q6) a) Give the general form of HMM model and also explain Ergodic model of HMM. [5]

b) Give the steps of Graphical models for sequence labeling in NLP. [5]

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