

Total No. of Questions : 6]

SEAT No. :

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Oct.-16/B.E./Insem.-181

B.E. (Computer Engineering)

MULTIDISCIPLINARY NATURAL LANGUAGE PROCESSING

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

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.
- 2) Figures to the right side indicate full marks.
- 3) Assume Suitable data if necessary.

- Q1) a) What is Parsing? Explain various parsing algorithms. [5]
b) Give the significance of Hybrid Parsing using probabilistic models. [5]

OR

- Q2) 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]
- Q3) a) With suitable example, explain the Maximum Entropy framework. [5]
b) Explain the steps of EM algorithm in Natural Language Processing. [5]

OR

- Q4) 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]

P.T.O.

- Q5) a) What do you mean by Unsupervised NLP? Compare Unsupervised NLP with Supervised NLP. [5]
b) Give the general form of HMM model and also explain Ergodic model of HMM. [5]

OR

- Q6) a) Explain in short the Viterbi algorithm for estimating the state sequence of FSM process. [5]
b) Give the steps of Graphical models for sequence labeling in NLP. [5]

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