OCT/BE/Insem.-101

B.E. (Computer Engineering)

MULTIDISCIPLINARY NATURAL LANGUAGE PROCESSING

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

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

1) *Attempt Q1 or Q2, Q3 or Q4, and Q5 or Q6.*
2) *Figures to the right indicate full marks.*
3) *Assume suitable data, if necessary.*

Q1) a) What are the various models of metaphors. Explain any one in detail. **[5]**

   b) Explain Lexical knowledge networks in detail. **[5]**

OR

Q2) a) Discuss Scope ambiguity and ambiguity resolution in detail. **[5]**

   b) Compare Hybrid of Rule Based and Probabilistic Parsing giving example. **[5]**

Q3) a) What is the use of Named Entities in recognition and classification of text in Natural Language Processing. **[5]**

   b) Explain the concept of forward and Backward probability with example. **[5]**

OR

Q4) a) Explain the steps of EM algorithm in Natural Language Processing. **[5]**

   b) With suitable example, explain the Maximum Entropy framework. **[5]**

P.T.O.

Q5) a) Discuss suitable model for sequence labeling in NLP. **[5]**

b) Compare Unsupervised NLP with Supervised NLP with example. **[5]**

OR

Q6) a) What is Finite state Morphological Parsing? Discuss with Example. **[5]**

b) Explain in short the Viterbi algorithm for estimating the state sequence of FSM process. **[5]**

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