

Total No. of Questions :6]

SEAT No. :

P290

Oct./BE/Insem. - 608

[Total No. of Pages : 2

B.E. (Information Technology)

NATURAL LANGUAGE PROCESSING

(2015 Course) (Semester - I) (Elective-I) (414456 B)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume suitable data, if necessary.*

Q1) a) Explain simple noun phrases with examples. **[5]**

b) Explain verb phrases with examples. **[5]**

OR

Q2) a) Explain Text-based and Dialogue-based applications with examples. **[5]**

b) Explain adjective and adverbial phrases with examples. **[5]**

Q3) a) Explain the working of a simple Top-Down parser with an example. **[5]**

b) Explain the concept of finite state models and morphological processing. **[5]**

OR

Q4) a) Explain the working of a bottom-up chart parser with an example. **[5]**

b) Explain various issues in lexicon design and the need for a morphological analysis component. **[5]**

P.T.O.

Q5) a) Explain the working of a Deterministic parser with an example. **[5]**

b) Explain various techniques for efficient encoding of ambiguity. **[5]**

OR

Q6) a) Why are shift-Reduce parsers efficient? **[5]**

b) Write short notes on the following : **[5]**

i) Auxiliary verbs and verb phrases.

ii) Noun phrases and relative clauses.

iii) Partial parsing.

