

Total No. of Questions : 8]

SEAT No. :

P-6641

[Total No. of Pages : 2

[6181]-205

**B.E. (Information Technology)**

**Natural Language Processing**

**(2019 Pattern) (Semester - VIII) (414451C) (Elective - V)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Answers: Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
- 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) Write a short note on Semantic Analysis. [6]  
b) Explain in detail the types of referring expressions. [6]  
c) Explain Discourse reference resolution in detail. [6]

OR

- Q2)** a) What is Word Sense Disambiguation (WSD)? Explain the dictionary based approach to Word Sense Disambiguation. [6]  
b) Describe in detail Centering Algorithm for reference resolution. [6]  
c) How do anaphora affect cohesion in discourse processing? [6]

- Q3)** a) Explain with example a Dependency-Path Kernel for Relation Extraction. [6]  
b) Explain the following : [6]  
i) Domain Knowledge  
ii) Knowledge Roles.  
c) Explain the journey of text processing from word Sequences to dependency Paths. [6]

OR

*P.T.O.*

- Q4)** a) With a neat diagram explain the learning frame work architecture. [8]  
b) Write short note on the following : [10]  
i) In fact System Overview  
ii) Global Security.org
- Q5)** a) How pages are classified for trainable document separation? [9]  
b) Write a note on various approaches for analyzing texts. [9]
- OR
- Q6)** a) Explain POS tagging with example. [9]  
b) What is the concept of corpora? How do you use corpus in NLP? [9]
- Q7)** a) Explain the stammers in detail also frame net and word net. [9]  
b) Explain design feature of IR system with a neat diagram. [7]
- OR
- Q8)** a) Explain iStart in detail. [9]  
b) Explain classical Information Retrieval Model. [7]

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