

Total No. of Questions: 8]

SEAT No. :

**PB2336**

**[6263]-184**

[Total No. of Pages :2

**B.E. (Information Technology Engineering)  
NATURAL LANGUAGE PROCESSING  
(2019Pattern) (Semester-VIII) (Elective-V) (414451 C)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q5 or Q6, Q7 or Q8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume Suitable data if necessary.

- Q1)** a) Explain steps used in discourse processing. **[9]**  
b) What are the different types of ambiguity? Provide an example of each. **[9]**

OR

- Q2)** a) What is the role of lexical resources? Explain WordNet in lexical semantics? **[9]**  
b) What is Word Sense Disambiguation? How it is handled in NLP. **[9]**

- Q3)** a) What is role of annotate knowledge in generation of text reports. **[8]**  
b) What is role of NLP in web search? Give suitable example. **[9]**

OR

- Q4)** a) Explain significance of Text Pre-Processing in NLP. Elaborate any method for Text Pre Processing. **[8]**  
b) Write a note on "Learning to Annotate Cases with Knowledge Roles". **[9]**

- Q5)** a) What is semantic text mining? Explain with a neat diagram. **[6]**  
b) Write note on Combination of Probabilistic Classification and Finite-State Sequence. **[6]**  
c) Write in detail the high level representation approaches in text mining. **[6]**

OR

*P.T.O.*

- Q6)** a) What is probabilistic model? Give examples of probabilistic models and explain any one in detail. [9]  
b) Explain the document separation as sequence mapping problem. [9]

- Q7)** a) What is Corpora? What is the role of Corpora? Explain the 3 types of Corpora. [5]  
b) Explain design feature of IR with a neat diagram. [7]  
c) Explain POS Tagger. [5]

OR

- Q8)** a) What is iSTART? List the reading strategies used by ISTART [7]  
b) Write short note on. [10]  
i) Word Net  
ii) Frame Net

