SEAT No. :

PA-10124

[Total No. of Pages : 1

[6009]-428

T.E. (Artificial Intelligence and Data Science) (Insem)
NATURAL LANGUAGE PROCESSING
(2019 Pattern) (Semester - II) (317532 (B)) (Elective - II) (Theory)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:
  1) *Solve questions Q.1 or Q.2 and Q.3 or Q.4.*
  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 Generic Natural Language Processing System in detail. **[5]**

 b) List and explain the challenges of Natural Language Processing. **[5]**

 c) Describe knowledge-based approaches used in NLP. **[5]**

OR

Q2) a) List and explain different Levels of Natural Language Processing. **[5]**

 b) Explain the applications of Natural Language Processing. **[5]**

 c) Describe rule-based approaches used in NLP. **[5]**

Q3) a) What is Morphology? Which are the types of Morphology? **[5]**

 b) Explain Morphological Parsing with Finite-State Transducers. **[5]**

 c) Discuss the term Word and Sentence Tokenization **[5]**

OR

Q4) a) Describe N-gram for language model using suitable example. **[5]**

 b) Explain Orthographic Rules and Finite-State Transducers. **[5]**

 c) Explain Derivational & inflectional morphology in detail. **[5]**

✿ ✿ ✿