[6010]-80

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

Time : 1 Hour]   *[Max. Marks : 30*

Instructions to the candidates :
1) *Answer Q.1 or Q.2, Q.3 or Q.4.*
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) What is language modeling? What are the techniques used for language modeling? **[5]**

b) Discuss challenges in processing Natural language. **[5]**

c) How grammar rules are used in processing Indian languages? **[5]**

OR

Q2) a) State and explain application of natural language processing. **[5]**

b) Define semantic and syntactic level of understanding in natural language processing. **[5]**

c) What is Statistical Language Model? Explain in detail with respect to natural language processing. **[5]**

Q3) a) How errors in spelling are detected and processed? Explain with example.**[7]**

b) Explain parsing, importance of parsing in NLP? Explain morphological parsing with example? **[8]**

OR

Q4) a) How tagging is done in part-of-Speech? **[5]**

b) Explain parsing in NLP? List and explain different parsing techniques used in the processing of natural language. **[8]**

c) What is syntactic analysis? **[2]**

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