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Ex/MLDL-16D/2023

7. Write short notes on any *two* of the following: 5×2

- a) Transition Network
- b) 'Hidden Markov Model'
- c) Sentiment analysis
- d) Text classification

MASTER OF LIBRARY AND INFORMATION SCIENCE
(DIGITAL LIBRARY) EXAMINATION, 2023

(2nd Year, 2nd Semester)

Natural Language Processing

Course : MLDL-16D

Time : Two Hours

Full Marks : 50

Answer *any five* questions.

1. Discuss different levels by which natural language can be classified. 10
2. What is meant by 'Natural Language Processing'? Discuss in brief the parsing techniques. 4+6
3. What is meant by 'context free grammar' (CFG)? In this connection discuss the following with examples: 4+3×2
 - a) Ambiguity
 - b) Derivation Tree
4. a) Discuss with examples: Lexical Semantics 5
 - b) State your idea on 'Classification of 'Morphemes''. 5
5. Briefly explain the term 'tokenisation' and why it is required. 10
6. State your idea on the following: 5×2
 - a) WordNet
 - b) N-gram

[Turn over