

**MASTER OF LIBRARY & INFORMATION SCIENCE (DIGITAL LIBRARY)  
EXAMINATION, 2025**

**DEPARTMENT OF LIBRARY & INFORMATION SCIENCE (EVENING)**

**2nd Year, 2nd Semester**

**Subject Code : MLDL - 16D**

**NATURAL LANGUAGE PROCESSING**

**Time : Two Hours**

**Full Marks : 50**

*Answer any five questions.*

1. Discuss different levels by which natural language can be classified. 10
2. State your idea on the following in relation to 'Tokenization' : 2.5×4
  - a. Chinese Segmentation
  - b. Normalization
  - c. Name Entity Recognition
  - d. Minimum Distance
3. a. Discuss with examples: Lexical Semantics. 5  
b. What is 'Lexical Relations' ? Discuss its types. 5
4. What is 'morpheme' ? How do you classify it ? Discuss. 3+7
5. What is meant by 'context free grammar' (CFG)? In this connection, discuss the following with examples: 4+3×2
  - a. Ambiguity
  - b. Derivation Tree
6. What is meant by 'Natural Language Processing' ? Discuss in brief the parsing techniques.
7. Write short notes on *any two* of the following : 5×2
  - a. 'Hidden Markov Model'
  - b. Sentiment Analysis
  - c. Applications of NLP
  - d. Applications of 'text classification'.

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