

- a) Sentiment analysis
- b) Opinion mining
- c) Emotion analysis 4+3+3
- 7. Write short notes on ***any two*** of the following: 5×2
 - a) N-gram
 - b) WordNet
 - c) Ambiguity
 - d) Lexical Semantics

MASTER OF LIBRARY AND INFORMATION SCIENCE

(DIGITAL LIBRARY) EXAMINATION, 2024

(2nd Year, 2nd Semester)

Natural Language Processing

Course : MLDL-16D

Time : Two Hours

Full Marks : 50

The figures in the margin indicate full marks.

Answer ***any five*** questions.

1. What is meant by 'Natural Language Processing'. Discuss "Structural Representation", as proposed by Noam Chomsky. 3+7
2. Define 'Context Free Grammar' (CFG). Briefly discuss its Features and components. Classify CFG according to Chomsky. 3+2+2+3
3. a) State your idea on 'Hidden Markov Model'.
b) What is meant by 'POS' tagging? Discuss properties of rule based POS tagging. 5+3+2
4. Discuss various applications of NLP. 10
5. What do you mean by 'text classification'? Discuss its applications. 5+5
6. State your idea on the following concepts with proper examples.

[Turn over