

National Forensic Sciences University
School of Cyber Security and Digital Forensics

Course Name: M.Tech AIDS (Batch: 2024-26)

Semester - II Exam: Mid-Sem (Mar - 2025)

Subject Code: CTMTAIDS SII P3

Time: 03:30 PM to 05:00 PM

Subject Name: Natural Language Processing

Date: 19-03-2025

Q-1 Answer the following Questions. (Attempt any five)

50 marks

- ✓ 1. What is regular expression? Explain various metacharacters. Explain any two functions of re module.
2. List various techniques for detecting and correcting spelling errors and explain minimum edit distance technique in detail with example.
- ✓ 3. What is PoS tagging? Explain different algorithms for PoS tagging in detail.
- ✓ 4. What is Chomsky Normal Form? What are the rules for CFG to CNF conversion? Explain CKY algorithm.
5. Explain various parsing techniques for context free grammar in detail.
- ✓ 6. Explain first order logic in detail.
7. Explain description logic in detail.

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