

Roll.No.

24UCGET5C01

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)  
Chromepet, Chennai - 600 044.

B.Sc with CGS - END SEMESTER EXAMINATIONS - NOVEMBER 2025  
SEMESTER - V

**24UCGET5C01 - Natural Language Processing**

Total Duration : 1 Hrs.30 Mins.

Total Marks : 40

### **Section B**

Answer any **TEN** questions ( $10 \times 2 = 20$  Marks)

1. Define Natural Language Processing.
2. List any two challenges in NLP.
3. What are morphemes?
4. Define lemmatization.
5. What is a Hidden Markov Model?
6. Define N-grams.
7. What is parsing in NLP?
8. Define context-free grammar.
9. What is WordNet?
10. Define lexical semantics.
11. Explain top-down parsing.
12. What is pragmatics in NLP?

### **Section C**

Answer any **FOUR** questions ( $4 \times 5 = 20$  Marks)

13. Explain the origin and evolution of NLP.
14. Describe morphological analysis in NLP?
15. Explain Hidden Markov Models (HMM) in NLP.
16. Discuss top-down and bottom-up parsing approaches.
17. Describe discourse analysis and its significance.
18. Describe dialogue systems and their components.

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