

Seat No. **MAR_APR 2025 SUMMER EXAMINATION****11731 Bachelor of Technology (NEP-2.0)****Sub. Name: Natural Language Processing****Sub. Code: 56527/109796****Day and Date: MAY ,19-05-2025****Total Marks: 70****Time: 10:30 AM To 01:00 PM****Instructions:**

- Special Inst.:**
1. Question no. 6 is compulsory
 2. Solve any four questions from Q. No. 1 to Q. No.5
 3. Assume suitable data wherever necessary
 4. Figures to the right indicate full marks

- Q1)** Solve Following Questions **[15]**
- a. What is POS tagging? Why it is important? **[8]**
 - b. Explain Parameter Estimation in NLP **[7]**
- Q2)** Solve Following Questions **[15]**
- a. Explain Smoothing techniques in Language Models **[8]**
 - b. What is named Entity? Explain NER **[7]**
- Q3)** Solve Following Questions **[15]**
- a. What is meant by a constituent in a sentence? Explain with examples **[8]**
 - b. Define a Context-Free Grammar. What are its components? **[7]**
- Q4)** Solve Following Questions **[15]**
- a. Write down Applications OF NLP **[8]**
 - b. write down Applications OF NLP **[7]**
- Q5)** Solve Following Questions **[15]**
- a. Explain various levels of natural language processing **[8]**
 - b. Explain Ambiguities in Natural Language. **[7]**
- Q6)** Write short note(Any Two) **[10]**
- a. Treebank

- b.** Grammar Equivalence
- c.** lexical semantics

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -

This Question Paper may be distributed for following Subjects as common code.

सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

- 1] (1154) B.Tech. CBCS (56527) Natural Language Processing Part 4 SEM 8

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