

## School of Computing Science and Engineering

Bachelor of Technology in Computer Science and Engineering  
Semester End Examination - Jul 2024

Duration : 180 Minutes  
Max Marks : 100

### Sem VI - R1UC616C - Natural Language Processing and Applications

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

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|-----|--|--------|
| 1)  | Draw NER flowchart.  | K1(2)  |
| 2)  | Explain the concept of stemming.   | K2(4)  |
| 3)  | Write a program for Named Entity Recognition.  | K2(6)  |
| 4)  | Describe the process of Natural Language Generation using N-gram models.                 | K3(9)  |
| 5)  | Discuss and compare different techniques of Text Summarization.                          | K3(9)  |
| 6)  | Discuss the applications of Named Entity Recognition in real-world scenarios.            | K5(10) |
| 7)  | Explain the process of Named Entity Recognition using machine learning.                  | K4(12) |
| 8)  | Discuss the limitations of Continuous Bag-Of-Words models. Explain CBOW model in detail. | K5(15) |
| 9)  | Analyze the economic implications of Machine Translation on global trade.                | K5(15) |
| 10) | Elaborate on the challenges of Sentiment Mining in noisy text data.                      | K6(18) |