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**School of Computing Science and Engineering**

Bachelor of Technology in Computer Science and Engineering

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

**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*

- 1) Compare and contrast Bag of Words and Skip-gram models. K2 (2)
- 2) Analyze the role of morphology in natural language processing. K1 (3)
- 3) Explain Word Sense Disambiguation and its importance in NLP. K2 (4)
- 4) Elaborate on the techniques used in Skip-gram models. K2 (6)
- 5) Explain the working of Word Sense Disambiguation. K3 (6)
- 6) Analyze the challenges associated with Named Entity Recognition. K3 (9)
- 7) Describe the process of building Continuous Bag-Of-Words models. K4 (8)
  
- 8) Analyze the limitations of Trigram Language Models. K4 (12)

**OR**

Discuss the challenges in Lexical Semantics analysis. K4 (12)