

## ADMISSION NUMBER

## School of Computing Science and Engineering Master of Technology in Computer Science and Engineering

Mid Term Examination - May 2024

**Duration: 90 Minutes** Max Marks: 50

## Sem II - R1PW201B - Natural Language Processing

**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)	Explain the significance of WordNet Similarity in NLP.	K2 (2)
2)	Define synsets and hypernyms in the context of WordNet.	K1 (3)
3)	Explain the process of tokenization in Natural Language Processing.	K2 (4)
4)	Explain the differences between extractive and abstractive text summarization techniques in natural language processing. Provide examples and discuss the advantages and disadvantages of each approach.	K2 (6)
5)	Illustrate the working principle of Recurrent Neural Networks (RNNs) in text processing.	K3 (6)
6)	Illustrate the process of sentiment analysis in NLP with an example.	K3 (9)
7)	Analyze the use of machine learning algorithms for text classification in NLP.	K4 (8)
8)	Analyze the performance of different neural network architectures for text generation in NLP.	K4 (12
	OR	
	Analyze the challenges and limitations of machine learning approaches for sentiment analysis in NLP.	K4 (12