Roll No.:

C128574(022)

B. Tech. (Hon's) (Fifth Semester) Examination Nov.-Dec. 2023

(AICTE Scheme)

(Data Science/Artificial Intelligence)

NATURAL LANGUAGE PROCESSING

Time Allowed: Three hours

Maximum Marks: 100

Minimum Pass Marks: 35

Note: Attempt all questions. Part (a) from each question is compulsory each question 4 marks. answers any two of the remaining (b), (c) and (d) each question 8 marks.

Unit-I

- 1. (a) Define Named Entity Recognition.
 - (b) Explain different levels of Natural Language
 Processing.

8

	(c)	What is stemminrg in NLP and how it is different	
		from lemmatization?	8
	(d)	Explain the challenges of NLP.	8
		Unit-II	
2.	(a)	Define Derivational Morphology.	4
	(b)	Explain the process of dealing with various spelling errors.	8
	(c)	Explain major phonetics classes.	8
	(d)	Explain N Gram Model.	8
		Unit-III	
3.	(a)	Define parts of speech.	4
	(b)	Explain Tree Bank and different types oef Tree Bank.	8
	(c)	Explain the parsing approach and its type.	8
	(d)	Explain scope ambiguity and attachment ambiguity resolution.	8

131

Unit-IV

4.	(a)	What do you mean by Dialogue Analysis?	4
	(b)	Differentiate information extraction and information retrieval.	8
	(c)	Write approaches to discourse analysis and its example.	8
	(d)	Explain Anaphora Resolution	8
		Unit-V	
5.	(a)	Define Shallow Parsing	4
	(b)	Explain application of Question Answering based system.	8
	(c)	Explain process of machine translation.	8
	(d)	Explain application of sentiment analysis.	8