Code No.: DS744PE/AD743PE

## CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS IV–B.TECH–I–Semester End Examinations (Supply) – April – 2025 NATURAL LANGUAGE PROCESSING (CSD, AI&DS)

## [Time: 3 Hours]

[Max. Marks: 70]

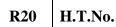
(20 Marks)

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A

		(20 10141 115)
1. a)	Briefly explain tokens.	[2M]
b)	Summarize sentence boundary detection.	[2M]
c)	Explain syntax analysis using dependency graphs.	[2M]
d)	Discuss syntax parsing using Hypergraphs.	[2M]
e)	What is semantic parsing in natural language processing?	[2M]
f)	Explain system paradigms.	[2M]
g)	What is Word Sense Disambiguation?	[2M]
h)	Explain the system in Predicate-Argument Structure.	[2M]
i)	Discuss n- Gram models.	[2M]
j)	Compare Spoken versus Written Languages.	[2M]
	PART-B	(50 Marks)
2.	List and explain the issues and challenges in morphological model.	[10M]
	OR	
3.	Describe generative sequence and discriminative local classification methods.	[10M]
4.	Compare the models for ambiguity resolution in parsing.	[10 <b>M</b> ]
	OR	
5.	Discuss the various Multilingual issues in syntax parsing.	[10M]
6.	Summarize semantic interpretation.	[10 <b>M</b> ]
0.	OR	
7.	Discuss the components of word sense.	[10M]
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8.	Summarize predicate argument structure.	[10M]
	OR	
9.	Discuss the components of meaning representation systems.	[10M]
10.	List and explain any five types of language models.	[10 <b>M</b> ]
10.	OR	
11.	Compare Multilingual and crosslingual language modeling.	[10M]





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