LIBRAFIAN WA HISTITUTE OF TECHNOLOGY	CBCS SCHEN	
USNAL ORE - 560		

15CS741

Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 Natural Language Processing

Natural Language Processing			
Time: 3 hrs. Max. Marks: 80			
Note: Answer any FIVE full questions, choosing ONE full question from each module.			
Module-1			
1	a.	What are the various components of transformational grammar? Explain the same in detail	
1	а.	with the help of an example. (10 Marks)	
	b.	What are the applications of NLP? Explain. (06 Marks)	
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	OR		
2	a.	With a neat diagram, explain the components and organization of GB in detail. Also give the s-structure and d-structure for the sentence "Ram Was Killed". (08 Marks)	
	b.	Explain X-bar theory in detail. Apply the same for the sentence "They cooked the cabbage	
	U.	yesterday". (08 Marks)	
2	3 a. Explain the dynamic programming for minimum edit distance and compute the minimum		
3	a.	edit distance between intention and execution. (08 Marks)	
	b.	Define FST and explain the same for morphological parser with an example. (08 Marks)	
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		OR	
4	a.	What are the different categories under which part-of-tagging fall? Explain hybrid tagger in detail (08 Marks)	
	h	detail. Explain the Early Parsing algorithm in detail. (08 Marks)	
	b.		
		Module-3	
5	a.	Discuss the computing of relation kernel in detail. (08 Marks) With a neat diagram, explain the learning frame work architecture. (08 Marks)	
	b.	With a neat diagram, explain the learning frame work architecture. (08 Marks)	
		OR	
6	a.	With a neat diagram, explain the architectural overview of Infact system. (06 Marks)	
	b.	Explain in detail functional overview of Infact system. (10 Marks)	
		Module-4	
7	a.	Explain the semantically guided Swanson crossover approach and explain different kinds of	
		mutations (08 Marks)	
	b.		
		discovery from texts. (08 Marks)	
		OR	
8	a.	Explain in detail the general document separation algorithm. (10 Marks)	
	b.	Define Coh-Metrix. Examine the same considering freely available on-line psychology	
		papers from different journals indicating its significance. (06 Marks)	
	Module-5		
9	a.	Explain the non-classical models of IR. (06 Marks)	
	b.	Define Precision and Recall. Explain similarity measures in information retrieval system. (10 Marks)	
		OP.	

OR

10 a. List and explain different part-of-speech tagger.
b. Explain the word net for English language and its applications.
(08 Marks)

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