



08/12/2022

Nov – Dec 2022				
(B. Tech) Program: Computer Engineering				
Examination: LY Semester :VII				
Course Code: CEDLC7034 and Course Name: Natural Language Processing				
Duration: 2 Hrs .30 Mins			Max. Marks: 60	
Instructions: (1)All questions are compulsory. (2)Draw neat diagrams wherever applicable. (3)Assume suitable data, if necessary.				
Q. No.	Question	Max. Marks	CO	BT Level
Q 1	Solve any six questions out of eight:	12		
i)	Identify and Describe the ambiguity in following sentence “Did you said you were looking for mixed nuts”.	2	CO1	Ap
ii)	What is text coherence?	2	CO5	U
iii)	What is natural language processing (NLP)? List down the various stages involve in NLP?	2	CO1	R
iv)	Identify number of bigram and trigram in the following sentence . “ A big bug bite a little beetle but the little beetle bit the big bug back”.	2	CO2	Ap
v)	Define and give example of Noun Phrase and Adverb Phrase.	2	CO3	R
vi)	What is POS tagging? POS tag the following sentence: “Ram went to school after two months”.	2	CO2	Ap
vii)	What is Anaphora and Cataphora?	2	CO4	R
viii)	How Semantic Analysis is different than Pragmatic Analysis?	2	CO5	U
Q.2	Solve any four questions out of six.	16		
i)	What is WordNet? Explain the structure and applications of WordNet.	4	CO3	U
ii)	Why is word sense disambiguation a challenging problem in natural language processing?	4	CO4	U
iii)	Explain various approaches to perform Part- of- speech(POS)	4	CO3	U
iv)	Design a finite state transducer with E-insertion orthographic rule for FST as generator.	4	CO2	Ap
v)	State the importance of Discourse analysis.	4	CO4	U
vi)	Explain with block diagram working of Question Answering system.	4	CO1,5	U



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Q.3	Solve any two questions out of three.	16		
i)	Explain various stages involved in NLP Show the processing of the sentence " The man saw a car in the park".	8	CO1	Ap
ii)	Compare various WSD approaches.	8	CO4	U
iii)	Describe any two types of referring expressions and any two types of referents.	8	CO5	U
Q.4	Solve any two questions out of three.	16		
i)	Explain Bottom up Parsing and its drawbacks.	8	CO2	U
ii)	Using example explain in detail N gram language model	8	CO3	Ap
iii)	Write short note on i) Sentiment analysis ii) Machine Translation	8	CO5	U
