G.R. No.	

DECEMBER 2021 - ENDSEM EXAM FINAL YEAR B. TECH. (COMPUTER ENGINEERING) (SEMESTER - I)

	COURSE NAME: PROFESSIONAL ELECTIVE V				
	(NATURAL LANGUAGE PROCESSING)				
COURSE CODE: CSUA40182C					
	(PATTERN 2018)				
Time:	[1 Hr] [Max. Mark	s: 30]			
Instr	uctions to candidates:				
1) A 2) F 3) U	nswer Q.1 OR Q.2, Q.3 OR Q.4, Q.5 OR Q.6. igures to the right indicate full marks. se of scientific calculator is allowed se suitable data where ever required				
Q.1 a	Identify correct lexical relations in the following examples. 1)Happy, joyful, glad 2)Happy, sad 3) world record, a record of conversation 4) book ticket, bring me a book	[4]			
Q.1 b	Compare Word Embedding and Bag of Word (BOW) with example OR	[6]			
Q2 a	Identify various applications of Distributional Semantic and explain any one of them in short	[4]			
Q2 b	Classify relation between word meanings and give example for each.	[6]			
Q.3 a Q.3 b	Model Regex for finding phone number and email Suppose you have various photographs (documents) with captions (words). You want to display them in a gallery so you decide to categorize the photographs on various themes (topics) based on which you will create different sections in your gallery. Assume category as k=2 (nature and city). Find out category of sentence "The tree is in front of the building and behind a car". Assume suitable data wherever required	[4] [6]			
Q.4 a Q.4 b	Explain the significance of Information Extraction in NLP Consider a case where enough annotated text for information extraction is not available. Choose appropriate information extraction method in this case and explain it.	[4] [6]			

Q.5 a	Analyze the impact of NLP in Education Sector	[4]
Q.5 b	Discuss Sentiment Analysis and its challenges	[6]
	OR	
Q.6 a	Assess the outcome of speech recognition with suitable example	[4]
Q.6 b	Semantic web describes the relations among data (i.e., resources) on the Web. Justify.	[6]