Paper / Subject Code: 70659 / Elective II: Natural Language Processing

JUNE 14,2024 10:30 am - 01:30 pm1T00162 - M.C.A. (SEM-II) (Choice Based) (Two Year Course) (R-2020-21) / 70659 - Elective II : Natural Language Processing QP CODE: 10057602

Time: 3 hours			Total Marks: 80	
N.	,	Question No.1 is compulsory. Attempt any three from the remain	ing five questions.	
1.		Write Short Notes on the following: (a) Text Summarization (b) Sentiment Analysis. (c) Porter's Stemmer. (d) Prepositional Phrases 		(20)
2.	(a)	What is POS tagging. Explain differ	ent techniques of POS tagging.	(10)
	(b)	Explain CFG with suitable example CFG such as 1)Agreement 2)Sub Categorizati	. Describe following potential problem in on 3)Movement	(10)
3.	(a)			(10)
	(b)	Explain Text Classification in detail		(10)
4.	(a)	Derive the sentence "John ate an approximate Top down parsing with Bouse the following grammar rules to 1. S->NP VP 2.VP->VNP		(10)
		3.NP->NAME	7. ART->an the	
			y	
	400	4.NP->ART N	8. N->apple	
45	(b)	Explain with suitable examples following relationships between word (10 meanings: Homonymy, Polysemy, Synonymy, Antonymy, Hypernomy, Hyponomy.		
5.	(a)	Describe Hidden Markov Model (HMM).		(10)
375	(b)	Write a note on Morphological parsing with FST.		(10)
6.	450	(a)Define generic NLP system with a diagram		(5)
		(b) State different applications of NL		(5)
		(c) Define morpheme, stem and affix	es.	(5)
		(d) Discuss ambiguities in NLP.		(5)
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