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VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN

[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI] Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.

Question Paper Code: 13010

$B.E.\ /\ B.Tech.\ DEGREE\ END\text{-SEMESTER}\ EXAMINATIONS-MAY\ /\ JUNE\ 2024$

Sixth Semester

Information Technology

U19CTV35 - NATURAL LANGUAGE PROCESSING

(Regulation 2019)

Time: Three Hours	Maximum: 100 Marks
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Answer ALL the questions

Knowledge Levels	K1 – Remembering	K3 – Applying	K5 - Evaluating
(KL)	K2 – Understanding	K4 – Analyzing	K6 - Creating

PART - A

			$(10 \times 2 = 20 \text{ Marks})$		
Q.No.	Questions	Marks	KL	CO	
1.	What is inflectional morphology in NLP?	2	K1	CO1	
2.	Explain derivational morphology with examples.	2	K2	CO1	
3.	Explain any 2 methods of part-of-speech tagging?	2	K2	CO2	
4.	What is the function of parts of speech tagging?	2	K1	CO2	
5.	What is context-free grammar and give an example?	2	K1	CO3	
6.	List the advantages of context-free grammar.	2	K1	CO3	
7.	Why is semantic analysis used in NLP?	2	K1	CO4	
8.	List the two types of semantics.	2	K1	CO4	
9.	Differentiate natural language generation and natural language processing?	2	K2	CO5	
10.	What is the application of discourse analysis in NLP?	2	K1	CO5	

PART - B

			$(5 \times 13 = 65 \text{ Marks})$			
Q.N	No.	Questions	Marks	KL	CO	
11.	a)	Give algorithmic steps in Porter Stemmer algorithm, explain.	13	K1	CO1	

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