Paper / Subject Code: 42373 / Department Elective III: Natural Language Processing

30/11/2024 CSE-AIML SEM-VII C SCHEME NLP QP CODE: 10064568

-	Гіте:	3 hours Total Marks: 80	•
1	N.B.	 Question No. 1 is compulsory Attempt any three questions from remaining five questions Assume suitable data if necessary and justify the assumptions Figures to the right indicate full marks 	
Q1		Answer the Following.	20
	A	Explain open and closed word classes in English Language. Show how the tags are assigned to the words of following sentence: "He used to provide help to other people"	05
	В	Discuss Information Retrieval vs Information Extraction in detail	05
	C	Define Discourse & Pragmatic analysis.	0.5
	D	What do you mean by word sense disambiguation (WSD)?	05
Q2	A	What is language model? Write a note on N-gram model.	10
	В	Explain Porter's Stemming algorithm with example.	10
Q3	A	Explain with suitable example following relationships between word meanings: Homonymy, Polysemy, Synonymy, Antonymy, Hypernomy, Hyponomy, Meronomy.	10
	В	What is Natural language processing (NLP)? Discuss various stages involved in NLP process with suitable example.	10
04	A	Discuss reference resolution problem in detail.	10
5	В	What do you mean by ambiguity in natural Language? Explain its types and ways to resolve it with suitable example	10
Q5	A	Explain Lesk's algorithm in detail.	10
	В	Discuss the following potential problems in CFG such as 1) Agreement 2) Sub categorization 3) Movement	10
Q6	15 15 15 15 15 15 15 15 15 15 15 15 15 1	Write Short Notes.(5 marks each) a. Text Summarization b. Named Entity Resolution c. Machine Translation d. Question Answering System	20
