PRN:		Course Code :	AMT1601

Third Year **B. Tech (AIML)** End Semester Examination
Summer 2023

Natural Language Processing

Day and Date: Tuesday, 13/06/23 Max Marks: **100**

Time : 10:30 am to 1:30 pm Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Summarize Phases in Natural Language Processing	08	2	1
	b)	Discuss Applications of Natural Language Processing	08	2	1
		OR			
	b)	Explain Term Frequency and Inverse Document Frequency encoding scheme along with Example	08	2	1
Q.2		**Attempt the following**			
	a)	Describe General Architecture for Text Engineering (GATE) Architecture in detail	08	1	1
	b)	Illustrate Preprocessing terms in Natural Language Toolkit	08	3	2
		OR			
	b)	Demonstrate Working of Hidden Markov Model (HMM) along with example	08	3	2
Q.3		**Attempt any Two from the following**			
	a)	Recall Part of Speech Tagging in Natural Language Processing	08	1	2
	b)	Write a short note on Components of Language	08	3	3
		OR			
	c)	Write a short note on Context free grammar and Named Entity Recognition	08	3	3
Q.4		**Attempt any Two from the following**			
	a)	Make use of Unification to process text in Natural Language Processing	08	3	3
	b)	Explain Word Sense Disambiguation algorithm	08	4	4
	c)	Explain Treebank in detail	08	4	2
Q.5		**Attempt any Two of the following**			
	a)	Generalize Pronoun Resolution in Natural Language Processing	09	5	4
	b)	Summarize Reference Resolution concept in Natural Language Processing	09	2	4
	c)	Generalize the concept of Discourse structure in detail	09	5	3
Q.6		**Attempt any Two of the following**			
	a)	Describe working of Spell Checking Natural Language Processing	09	1	2
	b)	Discuss concept of Chabot in detail	09	2	2
	c)	Illustrate Information Retrieval process in NLP in detail	09	3	3

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