PRN:		Course Code:	AMT1402

Second Year **AIML** End Semester Examination Summer 2024

Compiler Design

Day and Date: 24 MAY 2024, Friday Max Marks: **100**

Time: 2:00 to 5:00 pm Duration: **03**hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Explain non deterministic finite automata.	08	L2	CO1
	b)	Illustrate in detail phases of compiler	08	L2	CO1
		OR			
	b)	Explain deterministic finite automata with example	08	L2	CO1
Q.2		**Attempt the following**			
	a)	Give input buffering with sentinels in detail.	08	L1	CO2
	b)	Explain Ambiguity in grammar with example	08	L2	CO2
		OR			
	b)	Construct Tokens with specification.	08	L3	CO2
Q.3		**Attempt any two from the following**			
	a)	What is left Factoring, explain with example	08	L1	CO2
	b)	Explain top down parsing in detail	08	L2	CO2
	c)	Give LL (1) parsing step wise.	08	L1	CO2
Q.4		**Attempt any two from the following**			
	a)	Summarize LR parsers with parsing.	08	L2	CO3
	b)	Illustrate conflict in shift Reduce parser in detail.	08	L2	CO3
	c)	How to construct SLR parsing table	08	L1	CO3
Q.5		**Attempt any Two of the following**			
	a)	Develop annotated tree with explain	09	L3	CO3
	b)	Construct dependency graph and explain.	09	L3	CO3
	c)	Examine syntax directed translation with types	09	L4	CO4
Q.6		**Attempt any Two of the following**			
	a)	Explain flow graphs with diagram.	09	L2	CO4
	b)	Solve Triples also give its details.	09	L3	CO4
	c)	Explain three address code with example	09	L2	CO4

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