PRN:	Course Code:	AMT1402

Second Year **AIML** End Semester Examination Summer 2023

Compiler Design

Day and Date: Thursday, 15/06/23 Max Marks: **100**

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

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Explain finite automata.	08	L2	CO1
	b)	Illustrate front & backend of compiler	08	L2	CO1
		OR			
	b)	Explain deterministic finite automata with example	08	L2	CO1
Q.2		**Attempt the following**			
	a)	Define lexical analyzer& explain role.	08	L1	CO2
	b)	Explain Derivation in grammar with types	08	L2	CO2
		OR			
	b)	Construct Tokens with specification.	08	L3	CO2
Q.3		**Attempt any two from the following**			
	a)	What is left recursion and how to eliminate left recursion	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 handle pruning 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 representation of intermediate code.	09	L2	CO4
	b)	Solve Triples also give its details.	09	L3	CO4
	c)	Analyze in detail control flow graph	09	L4	CO4

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