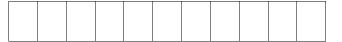
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C.		פותפודעיוווינא								
Fifth Semester Computer Science and Engineering										
	B									
	Tiı	me: 1.5 Hours Maximum Marks: 50								
		Part-A (5 x 2 =10 Marks)			СО	Blooms				
1	р.									
1.	Differentiate between Syntax Tree and Parse Tree				CO4	Ana				
2.		efine Activation Record and Activation Tree			CO4	Und				
3. 1		efine Constant folding with an example			CO5	Rem				
4.		aw the DAG for the statement $a = b^* - c + b^* - c$			CO5	Арр				
5.	Fir	nd the Object code Sequence for t:=a+b produced by a typical	cod	e	CO5	APP				
	gei	nerator								
		Part-B (2x13+14=40 Marks)								
6.	a.	Construct the canonical parsing table for the grammar given belocheck whether the string "cdcd " is accepted or not. S->CC C->cC	ow.	13	CO4	Арр				
		C->d								
		or								
	b.	Define three address code. Describe the various methods implementing three address statements with an example.	of	13	CO4	Und				
7.	a.	Explain the various techniques for storage allocation with examp	oles	13	CO5	App				
		or								
	b.	Analyzehow the Code optimization is performed in compiler v Examples	vith	13	CO5	Ana				
8.	a.	Demonstrate about the translation scheme to generate three addre code for Declarations and Assignment Statements or	ess	14	CO4	Und				
	b.	Discuss the Various Issues in the design of Code Generator		14	CO5	Rem				

Und-Understanding Rem-Remembering App-Applying Ana-Analyze Cre-Creating Eva-Evaluating Reg.No





SNS College of Technology, Coimbatore-35. (Autonomous) B.E/B.Tech- Internal Assessment -III Academic Year 2023-2024(ODD) Fifth Semester Computer Science and Engineering 19CSB301 – Automata Theory and Compiler Design



Time: 1.5 Hours Maximum Marks: 50

Part-A (5 x 2 =10 Marks)

		CO	Blooms
1.	Differentiate between Syntax Tree and Parse Tree	CO4	Ana
2.	Define Activation Record and Activation Tree	CO4	Und
3.	Define Constant folding with an example	CO5	Rem
4.	Draw the DAG for the statement $a = b * - c + b * - c$	CO5	App
5.	Find the Object code Sequence for t:=a+b produced by a typical code	CO5	APP
	generator		

Part-B (2x13+14=40 Marks)

6.	a.	Construct the canonical parsing table for the grammar given below. Check whether the string "cdcd " is accepted or not. S->CC C->cC	13	CO4	App
		C->d			
		or			
	b.	Define three address code. Describe the various methods of	13	CO4	Und
		implementing three address statements with an example.			
7.	a.	Explain the various techniques for storage allocation with examples	13	CO5	App
		or			
	b.	Analyze how the Code optimization is performed in compiler with	13	CO5	Ana
		Examples			
8.	a.	Demonstrate about the translation scheme to generate three address	14	CO4	Und
		code for Declarations and Assignment Statements			
		or			
		F ¹ · · · · · · · · · ·		a a	

b. Discuss the Various Issues in the design of Code Generator 14 CO5 Rem

Und-UnderstandingRem-RememberingApp-ApplyingAna-AnalyzeCre-CreatingEva-Evaluating