M. Tech.-IV (Information Technology) (CBCS – 2015 Course) : SUMMER - 2019

SUBJECT: SELF-STUDY PAPER-II COMPILER DESIGN

Day: Date:	Thursday 13/06/2019 S-2019-3514		Time: 11.00 AM TO 6 Max. Marks: 60	
N.B.:	2) Figures to rig	are COMPULSORY. ht indicate FULL marks. ble data if necessary.		
).1	Why there many l	Phases of Compilation? Mention the es	sence of each phase.	(10)
		OR		
Q.1	How Context Free Grammar is applicable for programming languages? Explain Top Down Parsing in detail.			(10)
Q.2	Draw and Explain Handling Ambiguous Grammar.			(10)
		OR		
Q.2	What is Attributed Grammar? Write Syntax Directed Translation.		anslation.	(10)
Q.3	How are Runtime Stack and Heap Storage Allocation performed?			(10)
		OR		
Q.3	What is Storage Allocation for Arrays? Explain Tree Structure in detail.		ucture in detail.	(10)
Q.4	Draw and Explain DAG Representation.		(10)	
		OR		
Q.4	Why is Optimizat	ion required? Explain Local Optimizati	ion in detail.	(10)
Q.5	What is Data Flov	v Analysis? Explain Copy Propagation	in detail.	(10)
		OR		
Q.5	What is Flow Graph? Discuss Data Flow Equations.			(10)
Q.6	What is Object Co	ode Forms? Write Machine Dependent	Code Optimization.	(10)
		OR		
Q.6	Explain Register A	Allocation for Object Code Generation	in detail.	(10)

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