	SUB.CODE: 20PCA2E2B								
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DHANALAKSHMI SRINIVASAN COLLEGE OF ARTS & SCIENCE FOR WOMEN (AUTONOMOUS)



(For Candidates admitted from 2020-2021 onwards)

PG DEGREE EXAMINATIONS APRIL - 2021

M.C.A – COMPUTER APPLICATIONS COMPILER DESIGN

Time: 3 Hrs		Max.Marks: 75

PART - A

CI	HOOSE THE CORRECT ANSWER	(10X1=10)					
1.	1. The action of parsing the source program into proper syntactic classes is called						
	a) General syntax analysis	b) Interpretation analysis					
	c) Syntax analysis	d) Lexical analysis					
2.	Does the compiler program translate the whole source of	code in one step?					
	a) No b) depends on the Compiler	c) Yes d) Depends on code					
3.	A bottom-up parser generates						
	a) Left-most derivation in reverse	b) Left-most derivation					
	c) Right-most derivation in reverse	d) Right -most derivation					
4.	The bottom-up parsing method is also called						
	a) Shift reduce parsing	b) Predictive parsing					
	c) Recursive descent parsing	d) none of these					
5.	Boolean expressions gives results in the form of						
	a) Strings b) Characters	c) Integers d) True or False					
6.	Compiler translates the source code to	<u></u> 4일 : 1일 :					
	a) Machine code	b) Executable code					
	c) Binary code	d) Both A and C					
7.	The compiler can detect what type of errors?						
	a)neither logical nor grammatical error	b)logical errors only					
	c) Grammatical errors only	d) both grammatical and logical errors					
8.	Code generation can be considered as the?						
	a)First phase of compilation	b) Second phase of compilation					
	c)Third phase of compilation	d) Final phase of compilation					
9.	DAG is an abbreviation of?	그게 많은데 그런 개발이 되는 그리고 없다.					
	a) Detecting Acyclic Graph	b) Data Acyclic Graph					
	c) Dynamic Acyclic Graph	d) Directed Acyclic Graph					

10. In Directed Acyclic	Graph, Leaf nodes rep	present?		
a) identifiers	b) names	c)	constants	d) All of the above
		PART- B		
ANSWER ALL THE Q	UESTIONS			(5X7=35)
11. a) Write notes on Co	mpiler construction t	ools.		
		(OR)		
b) Discuss the role o	f Lexical analyzer in	detail with neces	ssary examples.	
12. a)Explain Top down	parsing with example	e.		
		(OR)		
b) Discuss in detail a	bout Shift reduce par	sing with examp	ole.	
13. a) Write about Boole	ean expressions in con	npiler design.		
		(OR)		
b) Illustrate with exa	mple Intermediate la	nguages.		
14. a) What are the issue	s in the design of cod	e generator?		
		(OR)		
b) Elaborate on run t	ime storage managen	nent with examp	les.	
15. a)Discuss parameter	passing with example	e.		
		(OR)		
b) Identify the constr	ructs for optimization	in basic block.		
		7.77		
ANCINED ANN THE		PART-C		
ANSWER ANY THRE				(3X10=30)
16. Explain the phases o		diagram.		
17. Analyze LR Parser v				
18. Discuss in detail abo				
19. Describe Peephole o				
20. Explain global data f	low analysis with neo	cessary equations	S.	