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No.	

Total No. of Pages: 2

T.Y. B.Tech. (Computer Science and Engineering) (Part - III) (CBCS) (Semester - VI) (New) Examination, March - 2023 **COMPILER CONSTRUCTION**

Sub. Code: 81546									
Day	and I	Total Marks :	Total Marks: 70						
Tim	e: 10	.30 a.	m. to	01.00 p.m.					
Instructions:			1)	All questions are compulso	ry.				
			2)	Assume suitable data when	rever i	necessary.			
01)	Solv	ze M(~∩ം			[7 ×2=1	141		
Q1) Solve Mo			_	ng Compiler		[1~2-]	נידן		
	u)	i)		imized to occupy less sp	ace				
		ii)		imize the code					
		iii)	-	e less time to execute					
		iv)	Non	ne of these					
	b)	The	linke	er					
		i)	is si	milar to interpreter					
		ii)	uses	s source code as its input					
iii)		iii)		equired to create a load m	odule)			
				e of these					
c) Whi				the following is not a tol					
		i)	102		ii)				
	4.	iii)	MA			123.33			
	d)	• >		up parser generates		_·			
		1)	_	ht most derivations					
			_	ht most derivations in rev					
				most derivations					
	2)	iv)	Len	most derivations in rever					
	e)	<u>;)</u>	022	_ is a top-down parser.	;;)	An I AI D (12) names			
		i) iii)	_	rator precedence parser LR (k) parser	ii) iv)	An LALR (k) parser Recursive descent parser			
		ш)	All .	Liv (k) parser	11/	Recursive descent parser			

	f)	The output of a code generator is a								
		i)	syntax tree	ii)	target program					
		iii)	parse tree	iv)	source program					
	g)	The quality of generated code is determined by its								
		i)	behavior and size	ii)	behavior and speed					
		iii)	speed and size	iv)	behavior only					
Q 2)	Solv	ve an	y two of the following.			[2×7=14]				
	a) Explain different compiler construction tools.									
	b)									
	c) Explain LL (1) parsing algorithm.									
Q3)	a)									
	b) What are tokens? Explain specification and recognition of tok									
Q4)	ĺ	 c) What is top down parsing? Explain with example. Solve any two of the following. a) What is S attributed definition and L attributed definition? Exercise examples. 								
	b)	What are basic blocks?								
	c)	Wha	at are issues in design of a code	e gen	erator?					
Q 5)	Q5) Solve any two of the following.a) Write Syntax Directed Translation Scheme for Assignment									
	b)	b) What is peephole optimization?								
	c)		struct DAG (Directed Acycli b)+(a*b))+((c*d)+(c*d))	c Gra	aph) for following F	Expression				

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