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mpleting your answers. Compulsorily draw diagonal cross line on the remaining blank pages.	evealing of identification, appeal to evaluator and/or equations written eg. 32+8=40, will be treated as malpra
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III B.Tech. I Semester Supplementary Examinations Nov/Dec 2023

Compiler Design

		Compiler Design			
		(Computer Science and Engineering)	0.1		
		ax. Marks: 70 swer any five full questions by choosing one question from each unit (5x14 :	ne: 3 F - 70 M		
2	ΔH	*********	- 70 101	.CIRS J	
as marpractice. 1.			Marks	CO	BL
ا ا	۵۱	UNIT-I	45.4	004	
	a)	What is the difference between a pass and phase of a compiler?	4M	CO1	L3
מ מ	p)	What is an interpreter? Write Advantages and Disadvantages of Interpreter	4M	CO1	L1
7. Will be lieated	c)	Explain the different phases of the Compiler	6M	CO1	L1
1 1 2	- \	OR			
2.	a)	Define Left recursion? How to remove Left recursion from the given grammar S Aa / b			
32+0		A Ac/Sd/e	7M	CO2	L3
	b)	Write a LEX program for identifying the key words and identifiers from the file?	7M	CO1	L5
	D)	UNIT-II	7 101	001	
₹ 3.	a)	Draw and explain model of LR parser.	4M	CO3	L2
2	b)	Consider the grammar			
מווכ	٠,	$E \rightarrow E + T \mid E - T \mid T, T \rightarrow T * F \mid T / F \mid F, F \rightarrow (E) \mid id$			
<u>ל</u> ש		Show the sequence of moves made by shift reduce parser for the input			
2		string id1+id2*id3 is accepted or not.	10M	CO3	L4
evaluatol alto, ol equations 4.		OR			
4.	a)	Write a short notes on YACC?	8M	CO3	L5
D	b)	Differentiate between LR(1), Canonical-LR and LALR parsing methods	6M	CO3	L5
alion, appeal to .5		UNIT-III			
5.	a)	Distinguish static and dynamic type checking?	7M	CO3	L5
	b)	Discuss in detail about the Syntax Directed Definitions?	7M	CO3	L2
1	,	OR			
<u> </u>	a)	Write a short note on L-attributed definitions?	7M	CO3	L5
<u>5</u>	b)	Explain how an L-attribute grammar can be converted into a translation scheme	7M	CO3	12
6. 7.		UNIT-IV		000	
ַ 2 אַ 3 אַ	a)	Discuss about the stack allocation strategy with an example?	9M	C04	L2
<u>&gt;</u>	b)	What are various attributes of symbol table?	5M	C04	L1
₹ .i		OR			
8.	a)	List out various forms of Intermediated code?	6M	C04	L1
	b)	Compare three different Storage allocation strategies?	8M	C04	L5
		UNIT-V			
9.	a)	What are the applications of DAG? Explain how the given expression can			
		be converted into a DAG. (a+b)*(a+b)+(c+d)	8M	CO5	L2
	b)	Distinguish local and global optimization?	6M	CO5	L5
40	٥,	OR	71.4	005	1.4
10.	a)	Illustrate Copy propagation and Dead code elimination?	7M	CO5	L4
	b)	Describe Natural loops and Inner loops of a flow graph with an example?	7M	CO5	L1