Enrolln	nent No:	C II CIIAII			
			UNIVERSITY		
		willter Exa	amination-2022		
Subject	Name:	Translator Design			
Subject Code: 4TE07TDE1			Branch: B.Tech (CE)		
Semeste	er: 7	Date: 24/11/2022	Time: 11:00 To 02:00 M	Iarks: 70	
(2) (3)	Use of P. Instruction Draw ne	_	ny other electronic instrument is prohib book are strictly to be obeyed. ecessary) at right places.	ited.	
Q-1	At	tempt the following question	ons:	(14)	
	b) WI c) WI d) De e) WI f) WI g) WI h) WI i) WI j) De k) WI l) De m) WI	nat is Language Processor? nat is macro prototype statement is difference between a confine: Inherited Attributes rite full form of LL(K) and Lonat is handle and handle pruncite rule for removing left factite regular expression for "inhat is operator grammar? fine: Symbol table nat is role of assembler and I fine: Semantic Error. nat is purpose of code optimation.	ompiler and an interpreter? LR(K) grammar. ning? ctoring from the grammar. dentifier " token.		
Attemp	t any fou	r questions from Q-2 to Q	-8		
Q-2 A	\mathbf{W}_{1}	tempt all questions rite all the compilation phase lowing statements. a=a+b*c*2	es with input and output to each phase f	(14) For 07	
В	W_1		language processing system.	07	

Q-2		Attempt all questions	(14)
	\mathbf{A}	Write all the compilation phases with input and output to each phase for	07
		following statements. a=a+b*c*2	
	В	Write a note on components of language processing system.	07
Q-3		Attempt all questions	(14)
	A	Construct NFA- ε (null) using Thomson's construction method and convert it into DFA using subset construction method for following	07
		regular expression:	
		$(a \mid b) * abb$	
	В	Write a brief note on input buffering techniques.	07



Q-4		Attempt all questions	(14)
	A	Construct LL (1) parsing table for following grammar.	07
		S → aABb	
		$A \rightarrow c \mid \varepsilon$	
		$B \rightarrow d \mid \varepsilon$	
	В	Write a note on operator preceding parsing method.	07
Q-5		Attempt all questions	(14)
	A	Construct LR(1) parsing table for following grammar.	07
		$S \rightarrow L = R$	
		$S \rightarrow R$	
		L → * R	
		$L \rightarrow id$	
		$R \rightarrow L$	
	В	Write a S-attributed SDD of a simple desk calculator. Draw annotated	07
		parse tree for 3*5+4 expression.	
Q-6		Attempt all questions	(14)
	A	Explain various issues in design of code generator.	07
	В	What is Intermediate form of the code? What are the advantages of it?	07
		Write three address code for following expression.	
		(a+b)*(c+d)	
Q-7		Attempt all questions	(14)
	A	Compare: Static v/s Dynamic Memory Allocation	07
	В	Explain any three code optimization methods with examples.	07
Q-8		Attempt all questions	(14)
	A	List and explain advance macro facility with suitable example.	07
	В	Write a note on Two pass assembler.	07

