Registration		ation No :													
Total Number of Pages : 02										B.Tech.					
210		210			210	_		210			21	2 40		210	PCS6I102 2
210		Answer ≅Th	· Part		hich	COM BR Tii Ma Q.0	PILE RANC me : x Ma COD ompu	R DE H : C 3 Ho rks : E : C ilsor	SIGI SE urs 100 213 y and	N d any	r foui			<b>t-B.</b>	2:
Q1		Answer the	follov			<u>A (An</u> tions						ll up 1	tvpe :		(2 x 10)
	a)											(= 20 10)			
	b)														
	c) An ambiguous grammar may be in LL(1). Right/Wrong														
210	d)	In parsing leaf nodes are generally leveled by terminal / non-terminal / Circle													
	e)	What is Lexeme?													
	f)	Parsing belongs to the syntax analysis phase of Compilation. Right / Wrong													
	g)	Convert the following to postfix : a + (b ^ k) - b													
	h)	Suggest som		•		-									
210	i)	A grammar 'G' which produces more than one parse tree for some sentence of language is known as 210 210 210													
	j)	DAG stands for Directed Acyclic Graph. Right / Wrong													
Q2		Answer the	follov	ving (	quest	tions	: Sho	rt an	swer	type	:				(2 x 10)
	a)	What is cross	s com	piler '	? Exp	lain B	riefly	<u>.</u>							
	b)														
210	c)	Write down the			210			ner <sub>210</sub>	oair o	f Pro	ductic	n is L	.L(1) o	r not	2
	d)														
	e)	Define a con		_											
	f)	Define the st						•	•						
	g)	Explain the fu				•			•	sis.					
	h)	What is the w			-			lysis	?						
210	i) j)	What is a Sv		•		•	ing ?	210			21			210	2
210	J)	What is a Sy	IIIDOI	lable	. ⊏xŀ	лапт.		210			21			210	_
Part – B (Answer any four questions)  Q3 a) Explain the various phases of compilation. Describe the output for the											- حالم س	(40)			
Q3	a)	expression L	$\rightarrow 0$	+ V –	E ^ 2	after	each	step.					•		(10)
	b)	"A set of use tree" Justify t									ras a	succe	esstul <sub> </sub>	parse	(5)
210		210			210	0	J. (J.)	210			21			210	2

Q4	a)	Consider the following parsing table. $S \rightarrow BB$ $C \rightarrow dC$	ng grammar. Po	erform a SLR	parsing & draw	the SLR	(10)					
210	b)	$C \rightarrow b$ 210 Why loop unrolling is	important ? Exp	olain.	210	210	(5)	2				
Q5	a)	What is Bottom up Parsing ? Show the handle of each right sentential form. $S \to C + E + C$ $C \to d/ad/b$ $C \to id$										
210	b)	What is the necessity	of Intermediate	code <sup>2</sup> generation	on ? Explain.	210	(5)	2				
Q6	a) b)	<ul> <li>a) Discuss the structure of a symbol table. Explain how the symbol table is created for a block structured language.</li> <li>b) Test whether the grammar is LL(1) or not and construct a predictive parsing</li> </ul>										
	D)	table it	IIIIIIai is LL(1)	or not and cons	struct a predictive	parsing	(5)					
210		$S \rightarrow AaAb / BbBa$ $A \rightarrow \epsilon$ $B \rightarrow \epsilon$	210	210	210	210		2				
Q7	a)	Explain the goal of		ler. Describe t	he various strate	egies for	(10)					
	b)	recovering from a syntax error.  What is Peephole optimization? Explain with suitable example.										
<b>Q</b> 8 <sup>10</sup>	a)	techniques with suitable example.										
	b)	What is DAG ? Explain	n with a neat di	agram.			(5)					
Q9	a) b)	Write down the difference and similarity between YACC & BISON. (10) Write a short note on "Dead Code Elimination" (5)										
210		210	210	210	210	210						
210		210	210	210	210	210		2				