Regi	stra	tion No. :												
Total number of printed pages – 2 B. Tech														
PCCS 4305(New)														
		Sixth	Ser							on -	- 20	13		
COMPILER DESIGN														
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				QI		ION III		E : B	234					
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Ai	nswe	er Question The t						sory nargii		-			he res	st.
1.	Ansı	wer the foll	owing	g que	stion	s:								2×10
	(a)	Differentia	te to	kens,	patte	erns,	lexer	ne.						
	(b)	Why lexica	al and	synt	ax an	alyze	rs are	esep	arate	d out	?			
	(c)	What is me	eant b	y ha	ndle p	orunir	ng/k	NTRAL	LIBR					
	(d)	What are t	he lin	nitatio	ns of	statio	allo	cation	1?	型				
	(e)	What are t	he pr	opert	ies of	optir	hiempo	g com	piler	70				
	(f)	What do y	ou me	ean b	y por	ting c	of a co	smali	808/					
	(g)	What is an	amb	iguou	ıs gra	mma	r?							
	(h)	Write shor	t note	es on	LEX	?								
	(i)	Give the sy	yntax-	-direc	cted d	efiniti	on fo	r if-els	se sta	iteme	nt.			
	(j)	What are t	he pr	opert	ies of	optin	nizing	g com	piler	?				
2.	(a)	Explain in for the follo										dow	1 the o	utput 5
	(b)	For regula	ır exr	oress	ion (a	a lb) *	abb	draw	/ DF/	A by i	minin	nizina	numb	er of

states.

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3.	(a)	Give the operator precedence parsing algorithm.	5			
	(b)	Verify whether or not the following grammar is SLR(1) by constructing to parsing table:	he 5			
		S→ Ab  B				
		A  o aB				
		$B \rightarrow aA \mid a$				
4.	sem	lain how a symbol table can be integrated in to a compiler to performantic analysis. Specify how and when information should be stored a eved form to the symbol table.				
5.	(a)	Explain the translation scheme of checking the types of statements.	5			
	(b)	What are different storage allocation strategies? Explain.	5			
6.	(a)	What are compiler construction tools ? Explain.	5			
	(b)	Explain why it's possible to design an independent fexical analyzer with example.	an 5			
7.	(a)	Explain how basic blocks are identified, GUNDER	5			
	(b)	Explain the use of DAG in code optimization.	5			
8.	Write short notes on any two of the following:					
	(a)	Flow Graphs				
	(b)	Quadruples				
	(0)	I AI R Parser				

(d) Activation Record.