Registration no:															
Total Number of Pages: 01 B.TECH														B.TECH	
PCCS4305 6 <sup>th</sup> Semester Regular / Back Examination 2015-16															
			eme	Ster			I / B						15-10		
210		210			210		NCH(	210			210			210	
						Tin	ne: 3	В Но	urs						
							x Ma		_						
						-	Cod								
Answer Question No.1 which is compulsory and any five from the rest.  The figures in the right hand margin indicate marks.															ne rest.
04								nd r	narç	jin i	ndic	ate	mark		(0 ·· 40)
Q1º	a)	The war the renewing questione.									210	(2 x 10)			
	a) b)	·													
	c)	Define regular expressions.													
	ď)	Write the regular expression for denoting the set containing the string a													
	- \	and all strings consisting of zero or more a's followed by a b.													
	e) f)	· · · · · · · · · · · · · · · · · · ·													
210	g)	Define LEX		-	210		istic /	2101	iata:		210			210	
	h)	,													
	i) What are the data elements of a programming language?														
	j) What is the responsibility of symbol table?														
Q2	a)	Explain the p	ohase	es of	a cor	mpile	r with	ı a sı	ıitable	e exa	ample	<b>)</b> .			(5)
	b)	<b>b)</b> Briefly explain the characteristics of predictive parsing?										(5)			
Q3º		Explain step			oroce	ss to	conv	⁄ert <sup></sup> •N	IFA t	o reg	jular∘	expre	ession	with	(10)
an suitable example.															
Q4	a)	Construct the grammar G, S $\rightarrow$ aSbS   bSaS   $\epsilon$ ; show that G is										(5)			
	ambiguous for the string 'abab'.														
	b)	Consider the grammar S→cc   cSc. Parse the string 'ccc' and expl							ain	(5)					
		the process	ot ba	icktra	ickin	g.									
<b>Q5</b>	a)	Construct th	e FIF	RST a	and F	OLL	OW c	of the	gran	nmar	210			210	(5)
	,	S→aABb, A	<b>→</b> c	$\Rightarrow c \epsilon, B \Rightarrow d \epsilon$ .									( )		
	b)	Construct th	e LL	(1) g	ramm	nar o	f the	follov	ving	s→ .	AaAb	Bb	Ba, A	<b>√</b> ε,	(5)
Q6	a)	B $\rightarrow$ ε.  For the grammar $E \rightarrow E + E \mid E * E \mid (E) \mid$ id show various shift reduce											(5)		
QU	aj	For the grammar $E \rightarrow E + E \mid E * E \mid (E) \mid id$ , show various shift reduce parsing action with respect to input string id1 + id2 *id3.									(3)				
	b)	Discuss the			-		-	_				arsin	g Sch	neme	(5)
210		over LR sch	eme.		210			210			210			210	
Q7	a)	Write the alc	norith	m foi	r den	eratir	ום כס	de fr	ח mc	ΔGe					(5)
۷.	a) b)													(5)	
	,			·			••••		•				•		
Q8	_ \	Write Short I		•	•	o)									(5 x 2)
	a) h)	Reduction in Basic blocks													
210	b) c)	Quadruples						210			210			210	
	d)	Error recove			-										