210		210	210	210		210		210		
Reg	jistr	ation no:								
Total Number of Pages: 01										
6 th Semester Regular / Back Examination 2015-164										
210	COMPILER DESIGN					210				
	BRANCH: CSE Time: 3 Hours									
Max Marks: 70										
Q.Code: W193										
Answer Question No.1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks.										
210		210	210	210	nargn	210	to mark	210		
Q1	 Answer the following questions: a) Differentiate between compilers and translators. b) List different phases of a compiler. 								(2×10)	
£1										
	c)	What do you mean by Passes?								
	d) e)									
210		What is optimization? List different methods for code optimization.								
	g) h)	What do you mean by semantics of a programming language?								
	i)	What are the data elements of a programming language?								
Q2	j) a)	Explain the phases of a compiler with a suitable example.							(5)	
	b)								(5)	
Q3°		Differentiate between NFA and DFA. Eist the steps to convert NFA to regular expression with an example.							(10)	
Q4	a)	the string 'bababab'.							(5)	
	b)								(5)	
		the process of back	tracking.							
Q5	a)	Construct the FIRST and FOLLOW of the grammar $S \rightarrow ACB \mid CbB \mid Ba$, $A \rightarrow da \mid BC$, $B \rightarrow g \mid \epsilon$, $C \rightarrow h \mid \epsilon$. Write the non recursive predictive algorithm.		210	(5)					
	b)					(5)				
0.0						ow variou	s shift red	LICO	(5)	
Q6	a)	parsing action with	respect to inp	out string i	d1 + id2	2 *id3.		uce	(3)	
210	b)	Discuss the advantage and disadvantage of LR parsing Scheme.						210	(5)	
Q7	a)	Construct the LALR		e of the fo	llowing	grammar	below		(5)	
	b)	S→CC, C→cC D. Explain peephole optimization techniques with suitable example.							(5)	
Q8		Write Short Notes (Any Two)							(5 x 2)	
120		Synthesized attribut Yacc Compiler.	es.	210		210		210		
210	c)	Error handler.		210						
	d)	Syntax directed defi	nitions							