	http://www.rgpvonline.com				http://www.rgpvonline.com			
Te	otal l	No. of Questions: 8]	[Total No. of Printed Pages:	2			[2]	
			Roll No		4.	a)	Explain the various strategies of symbol table cre and organization.	ation
	CS-701		#		b)	Define syntax directed definition. Explain the various forms of syntax directed definition.		
	B.E. VII Semester Examination, December 2016 Compiler Design			http://www.rgpvonline.com				
				¥				
				1.6	5.	a)	Explain different storage allocation strategies with the	
	Time: Three Hours						help of suitable examples.	
						b)	Write short notes:	7
	Maximum Marks: 70			0 E			Type checking	
N	ote:	i) Attempt any five questions. ii) All questions carry equal marks.					ii) Register allocation and assignment	
		ii) All questions carry	equal marks.		6.	a)	Construct a DAG for the basic block whose code is a	vivon
						-/	below:	7
1	. a)	What are the different phases of compiler? Explain them		n			D: = B * C	,
		with help of suitable example. 7 Explain the following term in brief: 7 i) Input buffering					E:=A+B	
	b)						B: = B * C	
							A = E - D	
•	,	 ii) Functions of lexical analyzer Explain the concept of bootstrapping and porting in relation to compilation. 				b)	Explain quadruple, triple and indirect triple with suitable	
2	. a)						example.	7
	b)		lowing grammar is LL(1) or not					
	U)	E \rightarrow TE + TE/ ϵ T \rightarrow FT/*FT/ ϵ			7.	a)	Design algorithm for global common sub expres	sion
							elimination.	7
		$F \rightarrow (E)/id$				b)	Explain various issues in design of code generator.	7
		And explain the mod	el of predictive parser.	http://www				
					8.	Wr	ite short notes (any four)	14
3	. a)	Define: Left recursive. State the rule to remove left		ft <u>re</u>		a)	Peephole optimization	
		and the second of the second o	grammar. Eliminate left recursiv	gpvonline		b)	Back patching	
		from following grammar. S → Aa/b				c)	Loop optimization	
						d)	Dead code elimination	
		A→Ac/Sd/f Explain operator precedence parsing method with		h CO		e)	Syntax trees	
	b	Explain operator p	recedence parsing method wi					

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example.

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