

Cod	le No: <b>R31051 R10</b>	Set No.	1	
III B.Tech I Semester Supplementary Examinations, May - 2017 COMPILER DESIGN (Computer Science and Engineering)				
Time:	3 hours Answer any FIVE Questions All Questions carry equal marks *****		Max. Marks: 75	
	Describe the output for the various phases of compiler following statements Total = count + rate * 10.	with respect to the	[15N	
a) b)	Describe the role of regular expression in lexical analyzer. What are the error recovery actions in a lexical analyzer?		[7N [8N	
	Construct the predictive parser for the following grammar: $S \rightarrow (L)   a$ $L \rightarrow L, S S$		[15N	
	Construct SLR parsing table for the grammar $E \rightarrow E + T   T$ $T \rightarrow TF   F$ $F \rightarrow F^*   a   b$ Construct the CLR parsing table from S->AA,		[15N	
	Construct the CLR parsing table from S->AA, A->Aa   b		[15N	
a) b)	Briefly explain various parameter passing techniques. Discuss the merits and demerits of static allocation strategy		[7N [8N	
	Briefly explain the following with examples. Copy propelimination, code motion.	pagation, dead code	[15N	
a) b)	Distinguish machine dependent and machine independent o What is peephole? What peephole optimizations can be per	-	[8N [7N	

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