

Reg.	No:													
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR													
	(AUTONOMOUS)													
		<b>B.</b> T	ech I	II Yea	r II S	emest	er Re	gular	Exam	inatio	ons M	ay 2019		
					(	COMI	PILEF	R DES	IGN					
	(Computer Science & Engineering)													
Time:	Time: 3 hoursMax. Marks: 60													
				(A	nswei	all Fi	ve Un	its 5 x	12 =	60 Ma	arks)			
							UN	IT-I						
1	a Exp	lain Th	e Stru	cture of	of a Co	ompile	er.						5M	
	<b>b</b> Explain about LEX tool and write the syntax of LEX program.												7M	
•	OR													
2	<ul> <li>a what is the fore of fexical analyzer?</li> <li>b Explain LEX Tool</li> </ul>											6M		
	D Exp		A 1001	•			UN	тт п					OIVI	
3	<b>a</b> Define augmented grammar? Construct the LR(1) items for the following Gramm													
5	S->CC										iono wing Gramma	8M		
	C->aC/d													
	<b>b</b> Expl	ain abo	ut Prec	lictive	parsin	g.	(						4M	
4	<b>UR OK</b> $A \rightarrow What is an LL(1)$ grammar? Varify whather the following grammar is LL(1).													
-	• a what is an LL(1) grammar: verify whether the following grammar is LL(1) of $E \rightarrow E+T, E \rightarrow T, T \rightarrow T^*F, T \rightarrow F, F \rightarrow (E), F \rightarrow id$												8M	
	b Writ	te abou	t LR((	))									4M	
	UNIT-III													
5	<b>a</b> Explain about Construction of Syntax trees and DAGs for expressions.											8M		
	<b>b</b> Differentiate between L attribute and S attribute.												4M	
(	OR													
0	<ul> <li>a write about the Applications of SD1.</li> <li>b Explain different instructions in 2 address and</li> </ul>												41VI 8M	
	<b>INIT_IV</b>													
7	<ul> <li>7 a Explain heap management mechanism.</li> <li>b Discuss about access to non-local names.</li> </ul>											7M		
												5M		
	OR													
8	a Exp	lain ab	out blo	ock str	ucture	d lang	guage.						5M	
	<b>b</b> Explain about on Activation tree and activation records.												7M	
	UNIT-V													
9	a Con	struct t	he DA	G for	follov	ving st	tateme	ent. a+	b*c+d	l+b*c.			7M	
	b Exp	lain ab	out loo	op opti	ımızat	10n.	-	סו					5M	
10	a Frn	lain ah	out pri	ncinla	Sour	e of o	) ntimiz	<b>JK</b> vation					7M	
10	<b>b</b> Des	cribe th	ne vari	ous st	rategie	$e_{\rm S}$ in re	egister	allocs	ation				5M	
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