

Re	g.	No:													
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR														
	(AUTONOMOUS)														
В	.Te	ech III `	Year I	I Sem	ester	Reg	ular 8	& Sup	plem	entar	y Exa	amina	ations O	October-	2020
						(COMF	PILER			`				
Tim	(Common to USE & USI1) Time: 2 hours Markey 60														
1 1111	e: :	5 nours			<i>(</i>)		11 5			10 /	0.14	1 \	Iviax.	Marks: 0	U
					(Ar	nswer	all Fiv		ts 5 x	12 = 6	0 Mai	rks)			
1	\mathbf{a} Illustrate the step by step process to design the compiler by using the source pros												e program	m 8M	
-		positio	n: =ini	tial +	rate *	60		8		·r	5	~0		· · · · · · · ·	0112
	b Write the applications of compiler technology														4M
2	a Write the Role of a Lexical Analysis phase and Explain LEX Tool with a Lex														x 8M
-	Programme.														
	b What is pass and phases of a compiler? Explain.													4M	
	TINTED IT														
3	a	Calcula	te FIR	ST and	d FOL	LOW	for th	e follo	wing	gramr	nar.				8M
•	$E \rightarrow E + T/T$											0112			
		$T \to T^*$	F/F												
	F-> (E)/id b Write the differences between SLP CLP LALP persons													4 M	
	OR														-11/1
4	4 Construct CLR Parsing table for the given grammar											12M			
	S->CC C->aC/d														
	U	2 uC/u						UNI	Γ-III						
5	a	List and	d Expla	ain the	applic	cation	s of Sy	yntax]	Direct	ed Def	finitio	n.			6M
	b	Describ	be the e	valuat	ion or	der of	SDT	with a	n exai	nple.					6M
6	9	Fyplain	the Tr	vne Cł	peckin	a with	cuital	0 ble ev	R ample	c					5M
U	a b	What is	Backp	batchir	ng? Ex	g with plain	in deta	ail abo	out Ba	s. ck pate	ching	Techn	ique.		5M 7M
-	117	1	- 4 : 4 : -		19 1	-	16	UNI	<u>Γ-IV</u>		D	. 1	41-		1014
/	all	ocation	and ex	plain (each fi	ield in	it.	mat o	I Acti	vation	Reco	iu m s	lack		12111
				1				0	R						
8	Di	stinguis	h betw	veen st	atic sc	cope a	nd dy	namic	scope	e. Brie	fly ex	plain	access to	o non-loca	al 12M
mames in staue scope.															
								UNI	T-V						
9	Illı	ustrate t	he vari	ous st	rategie	es in re	egister	alloc	ation.						12M
10	Еx	nlain th	e peen	hole o	ntimiz	vation	Techn	O ique v	K vith ex	ample	2				12M
10		r'ann ui	- peep		r •••••					pr	-•				
							**	** EN	D ***						