Q.P. (	Q.P. Code: 19CS5001														<b>R</b> 1	19
Reg.	N	0:											]			
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS) M.Tech I Year I Semester Regular Examinations Jan 2020															
					A	DVAN	NCED	DAT	J A STI	RUCT	<b>FURE</b>	S				
					(0	ompu	iter So	cience	and I	Engin	eering	g)				
Time:	3 ho	ours			,	•				0	c	,,	Max	. Marks	5: 60	
					(A	nswei	r all Fi	ive Un UN	nits 5 x NIT-I	x 12 =	60 Ma	arks)				
1	a	Defin	e Has	hing.	Expla	in Rev	view o	f Hasł	ning ai	nd Ha	sh Fur	action.				6M
	b	• What is Double Hashing technique?														6M
2		What	ia aki	n list	) Writ	a abau	it onor	) Anddro	)R	toohn	iano					6M
2	a h	What	is ch	ip iist. ainino	? Wri	te abou	ut sen:	arate c	hainir	o and	l open	addre	ssino			6M
	Ð	vv nat		41111112	,. ,, 11	10 000	ut sept	UN	IT-II	ig und	open	uuure	551115.			0101
3	a	Discu	ss in	brief	Binary	searc	h trees	s with	an exa	ample						6M
-	b	With	a deta	ailed r	note or	1 AVL	trees	with i	ts ope	ration	s and	examp	ole.			6M
								(	)R <sup>°</sup>							
4	a	What	are 2	-3 tree	es how	it wo	orks wi	ith dat	a struc	etures	discus	s with	n an exa	mple?		6M
	b	b Explain Splay- trees with neat diagram.														6M
_							0	UN	IT-III							
5	a	Discu	ss the $T^{\cdot}$	e work	ting of	f Brute	e force	patter	rn mat	ching	• 1		1			6M
	D	Defin	e 1 ire	es and	discu	ss the	Tuncti	on Su	nix 11 DR	ies w	ith an	examp	ole.			6 IVI
6	a	Explain Standard Tries with an example.														
	b	Write	abou	t The	Boyer	-Moo	re Alg	orithn	n.							6M
					-		_	UN	IT-IV							
7	a	Expla	in ho	w to S	Search	a Pric	ority S	earch	Tree v	vorks	and its	s opera	ations.			6M
	b	Expla	in k-l	D Tre	es witl	h an ez	xample	e.								6M
0			-			1 5	~	(	DR							
8	a	How	Two	Dime	ensiona	al Ran	ige Se	archin	ig don	e in c	compu	tationa	al geon	netry ex	plain	6M
	1	with a	in exa	ample	?		4 9									
	b	What is computational geometry?														6 NI
9	a	Explain where hashing is used in real time with an example														6M
	b	• Explain about the Binary Search Tree What are the rules to create a BST? Give an													6M	
		exam	ole.			2										
		1	-					(	DR							
10	a	Expla	ain Sl	cip Li	st. Wh	y it is	called	l as a I	Rando	mized	l data s	structu	ire?			6M
	b	Explain the properties of Red Black Trees with an example.												6M		

\*\*\* END \*\*\*