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		S	ixth	S	em	est	er I	B.E.	Deg	ree E	xami	natio	n. Au	g./Se	pt.20	20	
	File Structures																
Time: 3 hrs.															ks:100		
Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.															ch part.		
									ć	PART	<u>- A</u>			deser S			
1	a. b.	Briefly explain the organization of data on Nine track tapes with a neat diagram. (06 Marks Illustrate the three distinct operations that contribute to the total cost of disk access.														06 Marks)	
	c.	Suppose it is needed to store a backup of a large file with 1 million records of 100 bytes each on a 7500 bpi tape that has an internal gap of 0.1" and with a blocking factor of 60. Calculate effective recording density (ERD). (10 Marks)															04 Marks) 00 bytes tor of 60. 10 Marks)
2	a. h	Expl Expl Writ	ain t ain e	he ach	diff wi	terei th a	nt wa n exa	ays of ample.	add	ing stri	uctures	to a fi	le to n	naintai	n ident	ity of (	records? 10 Marks)
	0.	(i) R	ecore	d	(ii)	Fie	ld	(iii) I	File	(iv)	Sequent	ial file	access	(v) F	Random	ı file a (	ccess 10 Marks)
3	a.	Brie reco	fly e rd an	xpl d v	ain aria	wit ble	h ex lengt	ample th reco	hov ords.	v space	es can b	be recla	aimed	dynam	ically i	in fixe (	ed length 10 Marks)
	b.	Expl	ain t	he c	11116	eren	t ope	erators	requ	ired to	maintai	in an in	dex nie			(	10 Marks)
4	a. b.	App exan Usin	ly k- nple. g co-	-wa -sec	y n Juer	nerg	e te mat	chniqu ch bas	ie fo ed oi	or merg	ging lar le loop,	ge nun , demon	nber o Istrate i	f list. interse	Demor	istrate ( f two 1	with an 10 Marks) ists. 10 Marks)
			GA GA					$\sim$	F	PAR <sup>7</sup>	<u>[ – B</u>	S					
5	a.	Wha (i) D	t is a eleti	n B- on	tree	? W (ii)	ith e Merg	exampl ging	le ex (ii	plain th i) Redi	e follov stributio	wing op on	eration	is in B-	-tree:	(	(10 Marks)
	b.	Con	struc C	t a l C G	B-tr J X	ee f N S	or th SU(	e follo D A E	wing B H	g set of	key : (C L Q R T	Order 4) CV	). Show	v every	step pi	coperly (	y. [10 Marks)
6	a.	Wha	it is i	nde	exec	l sec	quent	tial aco	cess?	' Expla	in the b	lock sp	litting	and me	erging	due to	insertion
	b.	Exp	lain t	he i	inte	mal	stru	cture c	of inc	lex set l	blocks.					(	(10 Marks)
7	a. b.	Wha Wha	at is h at are	nash the	ing lin	? W	rite tions	an has of cha	hing	algorit	hm and ssive ov	explain verflow	n with a ?	an exar	nple.	( ( tachni	(10 Marks) (05 Marks)
	c.	Exp expl	lain t ain d	the Iraw	imp /bac	cks (	of do	of ton uble h	ashi	ng.	insertio	on in pr	ogressi			echini (	(05 Marks)
8	a. b	Exp Writ	lain l	10W	ex	tend	lable	hashii amic l	ng w hash	orks. ing and	linear l	nashing				. (	(10 Marks) (10 Marks)
	0.	VV11		<b>914</b>	iou	.5 01	ruyi	luinie	iluon.	* * *	* *					·	(,
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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.