USN

## Sixth Semester B.E. Degree Examination, June/July 2011 File Structures

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions selecting at least TWO questions from each part.

## PART - A

1	a. L	and the second control of the second control design.	(06 Marks)
	b.	Explain seeking with C and C++ streams.	(04 Marks)
	C.	Explain sector based data organization in magnetic disk.	(06 Marks)
	d.	Differentiate between constant linear velocity (CLV) and constant angular veloci	
			(04 Marks)
2	a. b.	Write brief notes on:	(12 Marks)
		i) Performance of sequential search	
		ii) Direct access.	(08 Marks)
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3	a. h	Explain how spaces can be reclaimed in files.	(10 Marks)
	b.	What is an index? Explain a simple index for entry-sequenced file.	(10 Marks)
4	a.	What is co-sequential processing and what are the assumptions and compon model?	
	b.	Explain the following:	(10 Marks)
	υ.	i) K-way merge	
		ii) A selection tree for merging large number of lists.	(10 Manlas)
		Tracection tree for merging large number of lists.	(10 Marks)
<u>PART – B</u>			
5	a.	Explain with an example the creation of B-trees.	(10 Marks)
•	b.	Explain the following with respect to B-Tree:	(10 Marks)
	٠.	i) Worst-case search depth	
		ii) Redistribution during insertion.	(10 Marks)
		n) Reduction during instition.	(10 Marks)
6	a.	Explain simple prefix B <sup>+</sup> tree and the issues involved in maintenance of such trees	(10 Marks)
	b.	Explain the internal structure of index set blocks.	(10 Marks)
		Or made of made set blocks.	(10 Marks)
7	a.	What is hashing? Explain a simple hashing algorithm.	(10 Marks)
	b.	What is collision? Explain collision resolution by progressive overflow.	(10 Marks)
		progressive overtion.	(10 Mains)
8	a.	Explain the working of extendible hashing.	(10 Marks)
	b.	Write short notes on:	(- o Armitan)
		i) Dynamic hashing	
		ii) Linear hashing	(10 Marks)
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