## USN

## Sixth Semester B.E. Degree Examination, December 2010 File Structures

Time: 3 hrs.

Max. Marks:100

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

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1	a	PART - A  Explain briefly the evolution of file structure 1	
-	b	the structure design.	(06 Marks)
		The second code of the document	(04 Marks)
	c	Explain the functions OPEN, READ and WRITE with parameters.	(10 Marks)
2	a.	Explain the different UNIX tools for sequential processing of files.	(10 Marks)
	b.		(10 Marks)
3	a.	What do you understand by index? Explain simple index for sequential files.	(10 Marks)
	b.	What is data compression? Explain different techniques available for data compression.	ression. (10 Marks)
4	a.	Explain object-oriented model for implementing co-sequential processes.	(10 Marks)
	b.	Explain K-way merging algorithm.	(10 Marks)
		PART – B	
5	a.	What are B-trees? Explain, with an example, the creation of B-trees.	(10 Marks)
	b.	What are the properties of B-tree? Explain worst case-search.	(10 Marks)
6	a.	Explain with an example adding a simple index to the sequence set.	(10 Marks)
	b.	Explain simple prefix B <sup>+</sup> tree maintenance.	(10 Marks)
7	a.	What is hashing? White and hashing the	
,		What is hashing? Write an hashing algorithm and explain with an example.	(10 Marks)
	.b	Explain the different collision resolution techniques.	(10 Marks)
8	a.	Explain how extendible hashing works.	(10 Marks)
	b.	Explain dynamic hashing and linear hashing with figures.	(10 Marks)

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.