

## Sixth Semester B.E. Degree Examination, June/July 2013 **File Structures**

Time: 3 hrs. Max. Marks:100

Note: Answer FIVE full questions selecting

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		PART – A	
1	a.	What are file structures? What is the driving force behind the file structure design	?
	,		(04 Marks)
	b.	Explain the functions READ and WRITE with parameters.	(06 Marks)
	c.	What are the three distinct operations that contribute to the total cost of access on	
	a	Duisfler and Lind Carlot Carlot Str. on the Carlot Str.	(04 Marks)
	d.	Briefly explain the organization of data on Nine-Track tapes with a neat diagram.	
2	a.	What are the different ways of adding structures to a file to maintain the identity	of fields?
		Explain with example.	(08 Marks)
	b.	Explain the concept of inheritance using the I/O buffer class hierarchy.	(06 Marks)
	c.	What is RRN? Explain how does it support direct access with example.	(06 Marks)
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3	a.	Briefly explain with example how spaces can be reclaimed dynamically in fix	xed length
		records.	(08 Marks)
	b.	What are the limitations of keysort method?	(03 Marks)
	c.	What are inverted lists? How does it improve the secondary index structure?	(09 Marks)
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4	a.	Explain the object-oriented model for implementing co-sequential process.	(10 Marks)
	b.	With example, explain K-way Merge and selection tree for merging large numb	
			(10 Marks)
		PART – B	
5	a.		(10 Marks)
	b.	What is B-tree? With example explain the following operations in B-tree:	
		i) Deletion; ii) Merging; iii) Redistribution.	(10 Marks)
6	a.	What is indexed sequential access? Explain the block splitting and merging due to	o insertion
		and deletion in gogyamae set with assemble	

- and deletion in sequence set with example. (10 Marks)
  - Explain simple prefix B<sup>+</sup> trees and its maintenance, with diagram. (10 Marks)
- 7 What is hashing? Explain the simple hashing algorithm with example. (10 Marks)
  - Explain any two different collision resolution techniques. (10 Marks)
- Briefly discuss the working of extendible hashing. 8 (10 Marks)
  - Write short notes on: i) Dynamic hashing; ii) Storage fragmentation. (10 Marks)