

Sixth Semester B.E. Degree Examination, July/August 2022
File Structures

Max. Marks: 100

17IS62

(10 Marks)

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Note: Answer any FIVE full questions, choosing ONE full question from each module.			
-		Module-1	(0.4.3/1
1	a.	Write the difference between Physical and Logical File.	(04 Marks)
	b.	Explain the different File Processing Operations.	(08 Marks)
	c.	Explain the major strengths and weakness of CD - ROM.	(08 Marks)
OR			
2	a.	What are File Structures? Explain the history of File Structure.	(06 Marks)
_	b.	Explain the following:	,
		i) Seek time ii) Rotational delay iii) Transfer time.	(06 Marks)
	c.	Explain the Buffer Management.	(08 Marks)
_		Module-2	
3	a.	Explain Key – Sorting algorithm with example.	(10 Marks)
	b.	Explain how spaces can be reclaimed in files.	(10 Marks)
		OR	
4	a.	Explain the different Data Compression Techniques.	(10 Marks)
-	b.	Explain a Simple Index for Entry – Sequenced file.	(10 Marks)
	Module-3		
5	a.	Explain the Model for implementing the consequential processing and its app	
		general ledger program.	(10 Marks)
	b.	Describe how merging is used to sort large files on the disk.	(10 Marks)
		OR	
6	a.	Explain Deletion, Merging and Redistribution in B - Trees with example.	(10 Marks)
	b.	Explain Virtual B – Tree and how to overcome page fault.	(10 Marks)
-		Module-4	(00 1 7 1)
7	a.	Compare B + Tree and Simple Prefix B + Trees.	(08 Marks)
	b.	Explain the Internal structure of Index set blocks.	(12 Marks)
	100	OR	
8	a.	What is Sequence Set? Explain how it is maintained. Explain with an example	le adding a
		simple index to the sequence set.	(10 Marks)
	b.	Explain Simple Prefix B + Tree and the issues involved in maintainence of such the	
			(10 Marks)
		Module-5 CMRIT LIBRARY	
9	9	Explain the different Collision Resolution Techniques. BANGALORE - 560 037	(10 Marks)
7	a. b.	What is Hashing? Explain the different hashing functions, with an example.	(10 Marks)
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OR			
10	a.	What is Collision? Explain Collision Resolution by Progressive overflow.	(10 Marks)
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Explain the Working of Extendible hashing.