(10 Marks)

USN

Sixth Semester B.E. Degree

Sixth Semester B.E. Degree Examination, July/August 2021 File Structures

Max. Marks:100

Note: Answer any FIVE full questions.

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1	a.	Define File Structure. Explain the fundamental operations of file system.	(10 Marks)
1	b.	Explain the cost of a Disk Acers.	(06 Marks)
	c.	What are the techniques for managing buffers to improve performance?	(04 Marks)
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2	a.	Explain the most common methods of adding structure of files to maintain the	identify of
		fields.	(06 Marks)
	b.	Explain Buffer class hierarchy.	(08 Marks)
	c.	Write a note on Direct Access.	(06 Marks)
3	a.	Define Data compression. What are the Techniques of data compression and	explain any
3	u.	two techniques.	(10 Marks)
	b.	Explain Algorithm for key sort and write the limitations.	(06 Marks)
	c.	Explain Bending. Write the advantages and Disadvantages of Bonding.	(04 Marks)
4	a.	Explain object oriented Model for Implementing consequential process.	(10 Marks)
	b.	Describe the K-way Merge Algorithm with example.	(10 Marks)
_	-	Define D tree Eveloin the exection of a P tree with example	(10 Marks)
5	a. b.	Define B-tree. Explain the creation of a B-tree with example. With reference to B-trees, explain the following:	(10 Marks)
	υ.	i) Worst case search depth	
		ii) Deletion from a B-tree	
		iii) Redistribution during Insertion.	(10 Marks)
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6:	a.	Explain how to add a simple Index to sequence set.	(10 Marks)
	b.	Compare B-Trees, B ⁺ trees and simple protein B ⁺ Trees.	(10 Marks)
7	a.	Define Hashing. Explain a simple hashing Algorithm with example.	(10 Marks)
~	b.	What is collision? Explain different collision resolution techniques.	(10 Marks)
8	a.	Explain the working of extendible hashing.	(10 Marks)

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Explain Dynamic Hashing and Linier Hashing.