



## Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020 File Structures

Time: 3 hrs. Max. Marks:100

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

		PART - A	
1	a.	Describe the relation between the physical file and the logical file.	(04 Marks)
•	b.	Briefly explain the different basic ways to organize the data on a disk.	(10 Marks)
	c.	What is seeking? How it is supported in 'C' streams and 'C++' streams.	(06 Marks)
2	a.	What is a record? Explain different methods for organizing records of a file.	(12 Marks)
	b.	What is the advantage of using inheritance for record buffer classes? Explain.	(08 Marks)
3	a.	Define data compression. Explain irreversible compression techniques.	(06 Marks)
	b.	Explain the key-sorting technique and their limitations.	(06 Marks)
	c.	What is inverted list? Discuss it with an example.	(08 Marks)
4	a.	Explain the object – oriented model for implementing co-sequential process.	(10 Marks)
7	b.	Briefly explain the different methods used to sort files on a tape.	(10 Marks)
	0.	District of the state of the st	
		<u>PART – B</u>	
5	a.	Explain B-tree methods for search () and insert () with necessary C++ code.	(08 Marks)
	b.	Explain deletion, merging and redistribution of elements in B-tree.	(12 Marks)
			(05 M1)
6	a.	Explain the simple – prefix B + tree.	(05 Marks) (05 Marks)
	<ul> <li>b. Compare the strengths and weakness of B + trees and B - tree.</li> <li>c. Explain the block splitting and merging due to insertion and deletion in the sequence set,</li> </ul>		
	C.	with examples.	(10 Marks)
		with examples.	(2021200)
7	a.	What is Hashing? Explain the simple hashing algorithm.	(10 Marks)
	b.	Explain the double hashing and chained progressive overflow collision	resolution
		techniques.	(10 Marks)
			(10.3/1 )
8	a.	Explain the working procedure of extendible hashing.	(10 Marks)
	b.	Explain briefly linear hashing and dynamic hashing method.	(10 Marks)

\* \* \* \* \*