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Fifure Vision By K B Hemanth Raj

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USN	
	101863
Sixth Semester B.E. Degree Examination, Dec.2017	//Jan.2018
File Structures	
Time: 3 hrs.	
Note: Answer any FIVE full questions, selecting at least TWO questions from each part	Max. Marks:100
1 a. Explain the seeking operation in detail with respect to C stream and als	0 C++ stroom -1
<ul> <li>b. List and briefly explain the strength and weakness of CD ROM.</li> <li>c. Write a C++ program to read the contents of a file and display the con on the terminal.</li> </ul>	(08 Marks) (05 Marks) itents in reverse order (07 Marks)
2 a. Differentiate between fixed length record and variable length record in the	(or marks)
<ul> <li>b. Explain the class hierarchy for record buffer object - IOBuffer. Also structure with main members and methods of class IOBuffer.</li> <li>c. Write a C++ program to pack the 'n; number of student records in a record structure can be used)</li> </ul>	h suitable examples. (04 Marks) write only the class (08 Marks) a file. (Fixed length
<ul> <li>3 a. Write a C++ function or algorithm to search a record using RRN.</li> <li>b. List the needs of data compression. Explain Run-length encoding example.</li> <li>c. Explain the various placement strategies.</li> </ul>	(06 Marks) (06 Marks) algorithm with an (08 Marks)
4 a. Define co-sequential processing. Explain the essential comment	(06 Marks)
b. Explain K-way merge algorithm with an example	of consequential (10 Marks)
and an example.	(10 Marks)
5 a. List the B-tree properties. Explain search and insert methods with respect	
b. Calculate the number of levels for a B trea size 1000000	to B-tree. (10 Marks)
6 a. Explain indexed access to a Datace given 1000000 keys and order	512. (10 Marks)
with suitable examples.	n the sequence set
b. Explain in detail simple prefix B <sup>+</sup> tree maintenance.	(10 Marks)
7 a. Define hashing Differentiate but	(10 Marks)
algorithm with an example.	n simple hashing
b. Explain double hashing and chained progressive overflow in detail	(10 Marks)
8 Explain the following:	(10 Marks)
a. Tries	
c. Field structures	
d. Key sorting algorithm.	
*****	(20 Marks)

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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.