Exam. Code : 107204 Subject Code : 2069

BCA Semester—IV

DATA STRUCTURE & FILE PROCESSING

Paper-I

Tim	e Al	lowed—3 Hours]	[Maximum Marks-75				
Not		ttempt any five question narks.	ns. All questions carry equal				
1.	Discuss the features of following data structures wi examples :						
	(a)	Queue	7.5				
	(b)	Trees.	7.5				
2.	(a)	Explain the insertion	and deletion operations on				
		a stack.	7.5				
	(b)	Compare the features	of linked list and binary				
		trees.	7.5				
3.	Dis	cuss the Breadth first s	search algorithm for graph				
	usir	ng an example.	15.				
4.	(a)	Compare quick sort a	lgorithm with bubble sort				
		algorithm.	10				
	(b)	Discuss the linear sea	arch technique in detail. 5				
5.	Discuss the following file organization :						
	(a)	Indexed	7.5				
	(b)	Sequential.	7.5				
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6. (a)	Illustrate	binary	search	for	searching	'6'	in	the
	following	list :						

(b) Compare the concept of master and transaction files. 7.5

- What is space time complexity trade off ? Explain 7. with examples. 15
- Write notes on the following : 8.

(a)	Compaction	7.5

(b) Master and transaction files. 7.5

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