S.Y.BCA Examination

October - 2016 Data and File Structure - 201 Subject Code-8431

Tim	Time: 3 Hours Total Marks:	
Q.1	Answer the following Questions	
-	(A) What do you mean by data structure? Explain types of data structure.	(10)
	(B) Explain control structure of data in detail.	(10)
	OR	(10)
Q.1	Answer the following Questions	
	(A) What is data structure? Explain Application and goal of data structure in	(10)
	detail.	(10)
	(B) Explain Array and Sparse Matrix storage representation.	(10)
Q.2	Answer the following Questions	
	(A) Explain sequential search in detail with suitable example.	(10)
	(B) Write down bubble sort algorithm with its merits & demerits.	(10)
	OR	(10)
Q.2	Answer the following Questions	
	(A) Explain binary search in detail with example and algorithm.	(10)
	(B) Write down sequential search algorithm with its merits & demerits.	(10)
	The state of the s	(10)
Q.3	Answer the following Questions:	-
	(A) What is linked list? Explain various operations performed on linked list with	(10)
	example.	(10) (10)
	(B) Explain evaluation of postfix notation using stack method. OR	(10)
Q.3	Answer the following Questions:	
	(A) Write a detailed note on types of linked list.	(10)
	(B) What is queue? Explain types of queue in detail.	$\begin{array}{c} (10) \\ (10) \end{array}$
	1	(10)
Q.4	Answer the following Questions	
	(A) Explain Memory Representations of Binary Tree(Array & Linked) with	(10)
	example.	(10)
	(B) Explain binary tree traversal algorithms with example.	(10)
	OR	(10)
Q.4	Answer the following Questions	
	(A) Explain basic operations performed on binary tree in brief.	(10)
	(A) Explain DFS & BFS Graph Traversal Techniques with example.	(10)
Q.5	Angewood the fall O	. ,
Q.3	Answer the following Questions	
	(A) Write a detailed note on magnetic disk.	(10)
	(B) Define the terms: field, record, fixed and variable length record, primary & secondary key.	(10)
	OR	
Q.5	Answer the following Questions	
	(A) Explain Storage device and their Characteristics.	(10)
	(B) Explain sequential & index sequential file in detail.	(10)
		(10)