

(2)

Explain two dimensional array with example.

2	(a)	Objective Questions:	4
		(1) Bfs stands for	
		(2) Merge sort uses which technique.	
		(3) Linear search also called	
		(4) List out graph traversal.	
	(b)	Attempt any one:	2
		(1) What is bucket sort?	
		(2) What is binary searching?	
	(c)	Attempt any one:	3
		(1) Explain selection sort with example.	
		(2) Explain shortest path problem.	
	(d)	Attempt any one:	5
		(1) Write a program for insertion sort.	
		(2) Explain bubble sort with example.	
3	(a)	Objective Questions:	4
•	(4)	- 1. J 1 1 1 1 1 1	-
	(α)	(1) Stack uses FILO technique. State TRUE or FALSE	4
	(4)	(1) Stack uses FILO technique.	4
	(4)	<ul><li>(1) Stack uses FILO technique. State TRUE or FALSE</li><li>(2) Queue uses LIFO technique.</li></ul>	1
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	(b)	<ol> <li>Stack uses FILO technique.         State TRUE or FALSE</li> <li>Queue uses LIFO technique.         State TRUE or FALSE</li> <li>Stack is a data structure.</li> <li>When the push operation is performed on stack the</li> </ol>	2
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	(a)	Attempt any <b>one</b> :			
		(1)	Write a program to perform push(), pop() and update() operation on stack.		
		(2)	Write a program to perform insert() and delete() operation on Queue.		
4	(a)	Objective Questions:			
		(1)	In singly linked list implementation, a node carries information regarding and		
		(2)	In doubly linked list to insert element at start, the previous pointer of newly added node would point to		
		(3)	In doubly linked list each node containsfields.		
		(4)	In linked list element can be inserted at		
	(b)	Atte	empt any <b>one</b> :	2	
		(1)	What is linked list?		
		(2)	What is merging of linked list?		
	(c)	Atte	empt any <b>one</b> :	3	
		(1)	Differentiate Singly and Doubly linked list.		
		(2)	Write an algorithm for insert by position operation on singly linked list.		
	(d)	Atte	empt any <b>one</b> :	5	
		(1)	Explain doubly linked list in detail?		
		(2)	Write a program for create(), display() and search() operation on doubly linked list.		
5	(a)	Obje	ective Questions:	4	
		(1)	Node without children called		
		(2)	If each node in the tree has a maximum of two children, we say that the tree is a		
		(3)	List traversals of binary tree.		
		(4)	bst stands for		

- (b) Attempt any one:
  (1) Explain properties of tree.
  (2) Describe objectives of tree.
- (c) Attempt any one:

  (1) Explain Tree traversal Techniques.

  (2) Explain height balance tree.

  (d) Attempt any one:

  5
- (1) What is tree? Explain binary search tree in detail.(2) Write a program to create binary tree.