



	c) What is an Array? Explain the applications of an Array.	4
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Write algorithms to insert and delete elements from a stack.	7
	b) Write a C Program to calculate average of all the elements of a 3 X 3 matrix.	7
<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Write a note on : Binary Tree.	7
	b) Write algorithms to insert an element at beginning and delete an element from the middle of a doubly linked list.	7
<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Construct B-tree of order 5 for following data. 1, 8, 6, 2, 11, 5, 10, 13, 12, 20, 16, 24, 3, 4, 18, 19, 14, 25	7
	b) Write a note on : Dijkstra's Shortest Path Algorithm.	7
<b>Q-7</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Explain Prim's Algorithm with suitable example.	7
	b) Explain in short B Tree and B+ Tree.	7
<b>Q-8</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Write a note on : Indexed File Organization.	7
	b) Explain Jarvis March algorithm.	7

