15/12/14

SE-COMP. IV (Old)

QP Code:14465

(OLD COURSE)

		(3 Hours) [Total Marks :	100
**	D (1) Overting No. 1 is comparisonar	(2)
IN.		1) Question No.1 is compulsory.	
		2) Solve any four form remaining	
	(3) Figures to right indicate marks.	1
1.	(a)	Explain insertion sort Algorithm show one example solved by insertion sort.	10
		7 /	10
		other searching techniques?	
2.	(a)	What are different collision handling techniques in hashing? Explain in detail.	10 10
	(b)	Write Kruskal's algorithm for minimum spanning tree.	10
	(0)		
3.	(a)	Explain non recursive Quicksort Algorithm with example.	10
	(b)	Give algorithm for BFS. Take a sample graph and show travesal by BFS	10
	(-)	Technique.	
	(-)	What is warshall's algorithm for shortest path? Explain with example.	10
4.	(a)		10
	(b)		10
		solved by Backtracking.	
_	(0)	Explain knapsack problem. How it is solved by greedy approach?	10
5.	(a)		10
	(0)	What is strasten's matrix multiplication? Explain Algorithm.	
6.	(a)	Write a note on Travelling salesperson problem. How this problem is solved?	10
		Devise Algorithm.	
	(b)	Write difference between following Algorithmic strategies.	10
		(i) Greedy Vs Dynamic	
		(ii) Greedy Vs Dvide and conquer	
7.	(a)	Write short notes on Any Two:-	20

(i)

(iii)

N-queens problem

NP-hard and NP- complete problems

Binary search Tree Insertion