Design and Analysis of Algorithms 2008 May

Science Information Technology

FYBSc-IT

Semester 2

University Exam

University of Mumbai

shaalaa.com

Con. 105-08. Design & Analysis of Algorithms
PM-1220
(3 Hours) [Total Marks: 100]

N. I	3. :	 Question No. 1 is compulsory. Attempt any four question from Q. 2 to Q. 6. 		
1.	(a)	Explain List, Linked List.	5	
	(b)	Define Stack and its properties.	5	
		Explain the property of Queues.	5	
	(d)	Write a short note on Heap.	5	
2.	(a)	Explain Divide and Conquer Approach with suitable Algorithm.	10	
		Explain Strassen's matrix multiplication with suitable example.	10	
3.	(a)	Explain in detail Greedy method with suitable Algorithm.	10	
	(b)	Explain Quick sort & Merge sort Algorithm.	10	
4.	(a)	Explain with suitable Algorithm 830 and DFS methods.	10	
	(b)	Explain the concept of minimum's coming tree.	5	
		Explain binary search tree consont.	5	
5.	(a)	Explain selection son method with suitable Algorithm.	10	
	(b)	Explain knapsack problem and 8 queen's problem.	10	
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6.	(a)	Define graphs, Explain the concent of AND/OR graphs. Write a short note on graph	12	
		coloring concept.	-	
	(b)	Explain seis and Disjoint set property. Define cardinality.	а	

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