				Define cycle.	
	ANNA UNIVERSITY COIMBATORE			Explain the principle of topological sort.	
	B.E. / B.TECH. DEGREE EXAMINATIONS : MAY / JUNE 2010				
	REGULATIONS : 2007			PART - B	
	THIRD SEMESTER			(5 x 12 = 60 MAF	ARKS)
	070230007 - DATA STRUCTURES			ANSWER ANY FIVE QUESTIONS	
	(COMMON TO ECE / CSE / IT)	21.		Describe top down design method in the process of program development.	
TIME :	3 Hours Max.Marks : 100				
	PART – A	22.		Explain the following :	
	(20 x 2 = 40 MARKS) ANSWER ALL QUESTIONS		a)	Divide and conquer algorithms	(6)
	ANSWER ALL GOLSTIONS		b)	Brute force algorithms	(6)
Ι.	How efficiency of algorithm can be increased?			그는 그 그는 것 같아? 아파 가슴을 가슴을 가슴을 가 들었다. 것 같아?	
2.	Define time complexity and space complexity.	23.		Write a 'C' program for array implementation of list ADT.	
3.	Discuss on worst case and average case behavior of an algorithm? What is order notation?			Define binary search tree. Write the routines for inserting and deleting an element in binary search tree with suitable example.	
ł. –					
5.	Differentiate doubly and circularly linked list.			element in binary search tree with suitable example.	
i. 👘	Write the algorithm for balancing symbols.	25.		Write the steps and routine for the Inorder ,Preorder and Postorder traversal	•
	Convert the given infix to postfix (j*k)+(x+y).			with example.	
3.	How the enqueue and dequeue operations are performed in queue.				
).	Give the applications of priority queues.	26.	a)	Write the advantages and disadvantages for all the internal sorting methods.	. (8)
0.	Define depth of a node in a tree. Give example.		L)	Real Cheve State Contract of Contract	(4)
1.	Draw the expression tree for the given postfix expression using stack	t	b)	Write the principles of all types of internal sorting.	(4)
	AB*C+.	27.	a)	Perform insertion sort for the given list of numbers	(6)
2.	What is collision in hashing?			25,37,18,82,55,64,78	
3.	Differentiate between linear probing and quadratic probing.				
4.	What is the average depth of all nodes in an equally likely tree?	b)	b)		(6)
5.	Write a note on comparison based sorting			56, 91, 35,72,48,68	
6.	What is meant by quick sort?	28.		State the principle of Dijkstra's algorithm. Write the routines for finding the	е
7.	List the advantage of Poly phase Merge.	20.		shortest path in a graph.	5
8.	What do you mean by Undirected Graph?			*****THE END*****	

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