

Model Question Paper with effect from 2023-24 (CBCS Scheme)

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Fourth Semester B.E. Degree Examination Analysis and Designs of Algorithms

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any FIVE full questions, choosing at least ONE question from each MODULE.

Module -1			BL	Marks
Q.01	a	Define algorithm. Explain asymptotic notations Big Oh, Big Omega and Big Theta notations.	L2	08
	b	Explain the general plan for analyzing the efficiency of a recursive algorithm. Suggest a recursive algorithm to find factorial of number. Derive its efficiency.	L2	08
	c	If $t1(n) \in O(g1(n))$ and $t2(n) \in O(g2(n))$, then show that $t1(n) + t2(n) \in O(\max\{g1(n), g2(n)\})$.	L2	04
OR				
Q.02	a	With neat diagram explain different steps in designing and analyzing an algorithm.	L2	08
	b	Explain the general plan for analyzing the efficiency of a non-recursive algorithm. Suggest a non-recursive algorithm to find maximum element in the list of n numbers. Derive its efficiency.	L2	08
	c	With the algorithm derive the worst case efficiency for Bubble sort.	L2	04
Module-2				
Q. 03	a	Explain the concept of divide and conquer. Design an algorithm for merge sort and derive its time complexity.	L2	10
	b	Design an insertion sort algorithm and obtain its time complexity. Apply insertion sort on these elements: 25,75,40,10,20.	L3	10
OR				
Q.04	a	Explain Strassen's matrix multiplication and derive its time complexity.	L2	10
	b	Design an algorithm for quick sort algorithm. Apply quick sort on these elements: 25,75,40,10,20,05,15.	L3	10
Module-3				
Q. 05	a	Define AVL Trees. Explain its four rotation types.	L2	10
	b	Construct bottom up heap for the list 2,9,7,6,5,8. Obtain its time complexity.	L3	10
OR				
Q. 06	a	Define heap. Explain the properties of heap along with its representation.	L2	10
	b	Design Horspools algorithm for string matching. Apply Horspools algorithm to find the pattern BARBER in the text: JIM SAW ME IN A BARBERSHOP.	L3	10
Module-4				
Q. 07	a	Construct minimum cost spanning tree using Kruskals algorithm for the following graph.	L3	10
b	What are Huffman Trees? Construct the Huffman tree for the following data.		L3	10
	Character	A B C D E -		
	Probability	0.5 0.35 0.5 0.1 0.4 0.2		
Encode DAD-CBE using Huffman Encoding.				

3340901 Model Question Paper

Tobias Bleicker



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