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

TIME: 03 Hours

Max. Marks: 100

Note: Q1. 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 Horspool's algorithm for string matching. Apply Horspool's 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 Kruskal's algorithm for the following graph.		L3	10														
	b	What are Huffman Trees? Construct the Huffman tree for the following data.		L3	10														
		<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>Character</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>-</td> </tr> <tr> <td>Probability</td> <td>0.3</td> <td>0.35</td> <td>0.5</td> <td>0.1</td> <td>0.4</td> <td>0.2</td> </tr> </table> <p>Encode DAD-CBE using Huffman Encoding.</p>	Character	A	B	C	D	E	-	Probability	0.3	0.35	0.5	0.1	0.4	0.2			
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