

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2022****Subject Code:3150703****Date:09-01-2023****Subject Name:Analysis and Design of Algorithms****Time:10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		Marks
Q.1	(a) Sort the best case running times of all these algorithms in a non-decreasing order. LCS, Quick-Sort, Merge-Sort, Counting-Sort, Heap-Sort, Selection-Sort, Insertion-Sort, Bucket-Sort, Strassen's Algorithm.	03
	(b) State whether the statements are correct or incorrect with reasons. 1. $O(f(n)) + O(f(n)) = O(2f(n))$ 2. If $3n + 5 = O(n^2)$, then $3n + 5 = o(n^2)$	04
	(c) Explain asymptotic analysis with all the notations and its mathematical inequalities.	07
Q.2	(a) What is the use of Loop Invariant? What should be shown to prove that an algorithm is correct?	03
	(b) Apply LCS on sequence $\langle A,B,A,C,B,C \rangle$ for pattern $\langle A,B,C \rangle$	04
	(c) Write and explain the recurrence relation of Merge Sort.	07
	OR	
	(c) Perform the analysis of a recurrence relation $T(n) = 2T\left(\frac{n}{2}\right) + \theta(n^2)$ by drawing its recurrence tree.	07
Q.3	(a) Consider the array 2,4,6,7,8,9,10,12,14,15,17,19,20. Show (without actually sorting), how the quick sort performance will be affected with such input.	03
	(b) "A greedy strategy will work for fractional Knapsack problem but not for 0/1". is this true or false? Explain.	04
	(c) Apply Kruskal's algorithm on the given graph and step by step generate the MST.	07

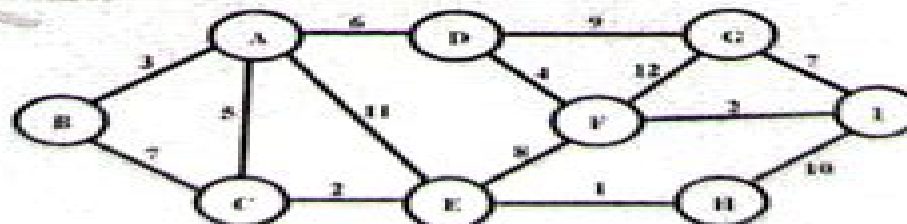
Graph $G(V,E)$

FIG:1

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