

Roll No:

Name:

Quiz-I ME Computer Science and Engineering 1st year Max Marks 10 Max Time : 10 Minutes

Note: There can be multiple answers to a question. In case of multiple answers all has to be correct. Every question carries equal marks. No negative Marking. Write answer in capital letter

1	One or more of the Following is not a cache friendly Concept. a) Quick Sort b) Row Major Multi-dimensional Matrix c) Heapify-Up d) Link List
2	If you are given a choice to decide the data structure based on Access complexity, what will be your order of preference a) Array b) Binary Search Tree c) Link List d)Stack
3	For Which of the following Algorithm characteristics we need to necessarily have a trade-off with the Algorithm Complexity a) Scalability b) Simple c)User Friendly d)Security
4	Fun() { } N=(x*x) + (y/2) If (z > 10) then call Fun() else if (z > N) then y=10 else x=10; Which of the following code tuning techniques can be applied to improve the above code a) Use of Sentinel Value b) Dead Code Elimination c) Lazy computations d) Loop Peeling
5	Which of the Following is true a) $b^c = a^{c \cdot \log_a c}$ b) $b^c = a^{c \cdot \log_b a}$ c) $b^c = a^{c \cdot \log_a a}$ d) $b^c = a^{c \cdot \log_a b}$
6	In Which of the following cases We can go for the Average Case Analysis a) When Worst Case Analysis of two alternate solutions is same b) When We want to know the general nature of the solution c) When we have an idea about the average nature of the Input d) When the available resources and worst case Complexity requirements are not in sync
7	Any algorithm which needs enumerating all permutations may generally require a) Quadratic time b) High polynomial time c) Exponential time d) Factorial time
8	Which of the following is false a) n is $O(n^2)$ b) n is $O(n)$ c) n is $O(\lg n)$ d) n is $O(n \lg n)$
9	All Bucket Sort variants are a) Stable b)Inplace c) Adaptive d)Neither stable nor Inplace
10	In External Sort we can combine a) Quick Sort and Merge Sort b) Quick Sort and Shell Sort c) Insertion Sort and Selection Sort d) Insertion Sort and Merge Sort