Class Test-I (CS4403 Design & Analysis of Algorithms)

Answer all the multiple-choice questions

Points:

10/10

1.What is the time complexity for job sequencing with deadlines?
(2/2 Points)

- O (n)
- O (nlogn)
- O (logn)
- O (n^2)

2.Which one of the following should be an input for a binary search?
(2/2 Points)

- Sorted array
- Unsorted array
- Binary search tree
- none of the above

3.How many edges does a spanning tree have? (V= vertices and E = edges)
(2/2 Points)

- V
- V-1
- V^2
- V/2

4.What is the space complexity of merge sort algorithm?
(2/2 Points)

- O (nlogn)
- O (n)
- O (logn)
- O (1)

5.What is the worst-case time complexity of the Quicksort algorithm?
(2/2 Points)

- O(n)
- O(nlogn)
- O(n^2)
- O(logn)