S No.	Questions	Answers
	Which of the following standard algorithms is not a Greedy algorithm?	
1	a) Dijkstra b) Prim's Algorithm c) Huffman coding d) Bellman Ford	
	Select the worst case complexity of performing UNION operation on Binary	
2	Heap, Binomial Heap, Fibonacci Heap respectively:	
	a) $\log n$, $\log n$, 1 b) $\log n$, $\log n$, $\log n$ c) n, $\log n$, 1 d) n, $\log n$, $\log n$	
	What is the average case Space complexity of Skip Lists?	
3	a) Θ (log n) b) Θ (n) c) Θ (n log n) d) Θ (n ²)	
	Are DFS and Preorder traversal, when applied on a tree, same?	
4	a) True b) False c) Can't say d) It depends on various other factors	
	Height of a Red Plack Tree with a keys is less than or equal to	
5	height of a Red-Black Tree with it keys is less than of equal to a) $\lg(n+1)$ b) $\lg(n) + 1$ c) $2\lg(n+1)$ d) $2\lg(n) + 1$	
5	a) 1g(11+1) $b) 1g(11) + 1$ $c) 2 1g(11+1)$ $u) 2 1g(11) + 1$	
	Does Prim's and Kruskal's algorithm always return same Minimum Cost	
6	Spanning Tree?	
	a) True b) False	
7	After inserting 14, 17, 11, 7, 53, 4, 13, 12 in an empty AVL tree, number of	
	rotations performed are: a) 2 b) 3 c) 4 d) 5	
	Strassen's Matrix Multiplication and Chain Matrix Multiplication has following	
8	time complexities, respectively:	
0	a) $O(n^{3.8072})$, $O(n^2)$ b) $O(n^{\log 7})$, $O(n^2)$ c) $O(n^{3.8074})$, $O(n^3)$ d) $O(n^{\log 7})$, $O(n^3)$	
	Best Case Time complexity and Worst Case Space complexity of Cocktail Sort is:	
9	a) $O(n), O(1)$ b) $O(n), O(n)$ c) $O(n^2), O(1)$ d) $O(n^2), O(n)$	
	Which of the following applications move a stack?	
10	Which of the following applications may use a stack?	
10	Tree Traversal	
	Syntax analyzer for a compiler	
	Breadth First Search	
	a) i and ii b) ii and iii c) i, ii and iv d) i, ii and iii e) All	
11	At the time of insertion the new node is inserted as a	
	Red Colored node b) Black Colored node c) Colorless node d) Depends upon	
	the number to be inserted	