Online Assessment (Special Examinations 2019 - 2020)

Course Name - - Design and Analysis of Algorithm Course Code - PCC-CS 402

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Δ	nswer all the questions. Each question carry one mark.
8.	1. Best case time complexity of insertion sort is
	Mark only one oval.
	O (1)
	O(n)
	O(n^2)
	none of these
9.	2. Master's theorem contains
	Mark only one oval.
	one case
	two cases
	three cases
	none of these
10.	3. Recursion tree method is used to find
	Mark only one oval.
	Space complexity
	Both Time complexity and Space complexity
	Time complexity
	None of these

11.	4. Worst case time complexity of quick sort is
	Mark only one oval.
	O(n)
	(O(nlogn)
	O(n^2)
	none of these
12.	5. An algorithm which uses the past results and and uses them to find the new results is
	Mark only one oval.
	Brute Force
	Divide and Conquer
	Dynamic programming
	Greedy Algorithm
13.	6. Which of the following is used to depict the working of algorithm?
	Mark only one oval.
	Flow chart
	Pseudo code
	Source code
	All of these

14.	7. An algorithm is made up of two independent time complexities f(n) and g(n). Then the complexities of the algorithm in the order of
	Mark only one oval.
	$\int f(n) x g(n)$
	min (f(n),g(n))
	$\max (f(n),g(n))$
	f(n) + g(n)
15.	8. Merge sort can be categorized into which of the following?
	Mark only one oval.
	Brute Force technique
	Divide and conquer algorithm
	Greedy method
	Dynamic programming
16.	9. Disjoint set data structure is used in
	Mark only one oval.
	kruskal's algorithm
	dfs algorithm
	Prim's algorithm
	none of these

17.	10. Upper bound complexity denoted by
	Mark only one oval.
	Big-0
	Little-o
	Ω
	Ø
18.	11. Ω - notation provides an asymptotic
	Mark only one oval.
	Lower bound
	Upper bound
	One that is sandwiched between the two bounds
	None of these
19.	12. Big-O notation provides an asymptotic
	Mark only one oval.
	Lower bound
	One that is sandwiched between the two bounds
	Upper bound
	None of these

20.	13. Which algorithm is able to detect negative edge cycle
	Mark only one oval.
	Dijkstra's
	Floyd warshall
	Bellman ford
	None of these
21.	14. Time complexity of linear search algorithm on n item in best case is
	Mark only one oval.
	<u> </u>
	O(log n)
	O(n)
	O(n log n)
22.	15. Time complexity of binary search algorithm on n item in worst case is
	Mark only one oval.
	<u> </u>
	O(n)
	O(log n)
	O(n log n)

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