Computer Science Ics Part 1 Chapter 3 Online Test

Sr	Questions	Answers Choice
1	Which is solved by Dynaimc programming.	A. Coin Change B. Fibonacci sequence C. Merge sort D. Puzzle solving
2	What does space complexity measure.	A. Execution time B. Memory usage C. Number of steps D. Result accuracy
3	Why is tractability important.	A. Output color B. Language choice C. Solve efficiently D. Input type
4	What does page rank algorithm analyze.	A. Page links B. page color C. Page size D. Page font
5	NP- complete matters because.	A. Solved faster than P B. Solving one solves all NP C. aLWAYS TRACTABLE D. nO REAL USE
6	For which problems is Backtrackign suitable.	A. Optimal substructure B. Explore all combinations C. One optimal choice D. No overlapping problems
7	How does Divide and conqurr work	A. Make local choices B. Break, sole, combine C. Store subproblem results D. Try all options, backtrack
8	Why are commonly used algorithms important.	A. Reduce hrdware cost B. Solve common problems efficiently C. Remove need for data structures D. for theory only
9	How does Divide and conquere work.	A. Make local chices B. Break ,solve, combine C. Store subproblem results D. Try alloptions, backtrack
10	What is the purpose of search algorithms	A. Arrange data B. Find secific data C. analyze nodes D. Save memory
11	For which problems is Backtracking suitable	A. Optimal substrcuture B. Explore all combnations C. ONe optimal choice D. No overlapping problems
12	The characteristic of a well defined problem is.	A. Ambiguous goals and uncelear requirements B. Vegue processes and inputs C. Clear goas, inpus, processes, and oututs D. Undrined solutions
13	What is generate and Test algorithm	A. Tests all options B. Picks one solution C. skips testing D. Uses no logic
14	An algorithm that sort data by stepping thourgh the list and swapping adjacent elements if needed is.	A. Selection sort B. Quick sort C. Bubble sort D. Merge sort

15	Sovable problems differ becasue they.	A. Take exponential time B. Need better hardware C. Halt with a result D. Have no input
16	NP hard problems are	A. Easy to solve B. Alway solvable C. As hard as NP problem D. In class P
17	How does Backtracking work.	A. Break into parts B. Build and Backtrack C. Store subproblems D. Make local choices
18	Which technique is used in Merge sort.	A. Greedy B. Divide and conqurer C. Dynaimc Programming D. Back tracking
19	What is role of algorithm in problem solving.	A. Gives steps B. Ignores logic C. Random process D. Blocks solutions
20	Whcih is an lll-defined problem.	A. Check even number B. Find shortest path C. Reduce poverty D. Count book arrangements