Computer Science Ics Part 1 Chapter 3 Online Test

Sr	Questions	Answers Choice
1	What is the main advantage of Dynamic Programming.	A. Avoid redundant work B. Locally optmal results C. Sole independent problems D. Explore all options
2	What is computational problem.	A. solved using algorithm B. Solved using creativity C. Has unclear input D. Has no process
3	How do BFS and DFS differ.	A. BFS Stack, DFS -queue B. BFS -level , DFS -depth C. BFS Sort, DFS-Search D. BFS always slower
4	What is the main advantage of Dynamic programming.	A. Avoid redundant work B. Locally optimal results C. Solve independent problems D. Explore alloptions
5	How does bubble sort work	A. Select smallest and swap B. Swap adjacent if wrong C. Divide and merge D. Explore nodes level wise
6	What is outpout when checking if 8 is even.	A. Found at 2 B. Even C. Odd D. Yes
7	Which is solved by Dynaimc programming.	A. Coin Change B. Fibonacci sequence C. Merge sort D. Puzzle solving
8	What is limitation Greedy algorithms	A. Too complex B. Always optimal C. Not always optimal D. High memory use
9	Which technique is used in Merge sort.	A. Greedy B. Divide and conqurer C. Dynaimc Programming D. Back tracking
10	Whcih is a sorting algorithms.	A. Linear search B. Qucik sort C. DFS D. BFS
11	Tractable prolem canbe solved	A. In exponential time B. Efficiently with large input C. With no algorithm D. Are always NP hard
12	Tractability depends on	A. Inputs B. Complexity C. Outputs D. Algorthm type
13	For which problems is Backtracing suitable.	A. Optimal substrcuture B. Explore all combinations C. ON optimal choice D. No overlapping problems
14	Easy to verify but hard to solve problem are in.	A. NP B. P C. NP hard D. Undecidable
15	What does page rank algorithm analyze.	A. Page links B. page color C. Page size

		D. Page font
16	Why are commonly used algorithms important.	A. Reduce hardware cost B. Solve common Problems efficiently C. Remvoe need for data structure D. For theory only
17	Problems in NP and NP-hard are called.	A. P B. BPP C. NP Complete D. Tractable
18	What does space complexity measure.	A. Execution time B. Memory usage C. Number of steps D. Result accuracy
19	Which is an NP complete problem.	A. Sorting B. Knapsack C. GCD finding D. Binary search
20	What is the main advantages of dynamic programming.	A. Avoid redundant work B. Locally optimal results C. Solves independent problems D. Explore alloptions