

## Computer Science 7th Class Chapter 3 Online Test

Sr	Questions	Answers Choice
1	The algorithm which goes through all possible solutions until the required solution is found is.	A. Recursive Algorithm B. Searchign algorithm C. <b>Brute force algorithm</b> D. Sortig algorithm
2	The loops which have to be terminated are called.	A. Infinite loops B. <b>Finite loops</b> C. Simple loops D. Intermediate loops
3	What is the type of algorithm that uses a random number to decide the expected outcome.	A. Brute force algorithm B. Recursive algorithm C. Sorting algorithm D. <b>Randomized algorithm</b>
4	Which step involves creating a set of instructions to solve a problem.	A. Decomposition B. <b>Algorithm Design</b> C. Generalization and Abstraction D. Pattern recognition
5	Which type of loop has an explicit end and executes its body a fixed number of times.	A. <b>Finite loop</b> B. Infinite loop C. Sequence loop D. Recursive loop
6	What is the first step in solving a problem with an algorithm.	A. Designing the algorithm B. <b>Fulfilling the prerequisites</b> C. Implementing the algorithm D. Testing the algorithm
7	Which structure executes a statement or set of statements only if the condition is true.	A. Sequence structure B. <b>Selection structure</b> C. Conditional structure D. Repetition structure
8	Which of the following is an example of computational thinking?	A. <b>Recipe to bake a cake</b> B. Riding a bicycle C. Listening to music D. Painting a picture
9	Breaking down a problem into sub-problems is called.	A. Generalization B. <b>Deconstruction</b> C. Design D. Pattern Recognition
10	What is Computational Thinking.	A. <b>Problem-solving skills and techniques</b> B. Solving problems using computers C. Breaking down problems into smaller parts D. Recognizing patterns in images
11	Set of instructions to solve a problem is called.	A. Directions B. <b>Algorithm</b> C. Instructions D. Design
12	Which does the diamond symbol represent in a flowchart.	A. Input/Output B. Arrow C. Terminal D. <b>Decision</b>
13	What is the purpose of an arrow in a flowchart.	A. <b>To link different processes in the flowchart</b> B. To indicate the start and stop points C. To represent input or output D. To indicate the direction of flow within the same process
14	Which step involves breaking down complex problems into smaller parts.	A. <b>Decomposition</b> B. Pattern recognition C. Generalization and Abstraction D. Algorithm Design

15	Which symbol represents the start or stop point in a flowchart.	A. Arrow B. Terminal C. Decision D. Input/Output
16	What is the purpose of the "Mod" in programming.	A. To add two integers B. To multiply two integers C. To take the remainder of an integer D. To divide two integers
17	Which feature in Scratch is used for infinite loops in which an object will repeat its action forever.	A. Loop forever B. Forever loop C. Infinite repeat D. Repeat forever
18	What is the efficiency of a solution based on in terms of the given parameters.	A. Numbers of lines of code B. amount of memory available C. Number of steps executed D. Complexity of the solution
19	Which of the following is not a cornerstone of Computational Thinking?	A. Decomposition B. Pattern recognition C. Generalization and Abstraction D. Probability calculation
20	What is the disadvantage of using a flowchart.	A. Easy to understand B. Difficult to modify C. Time saving D. Easy to understand for people who don't know flowchart symbols