

Computer Science Ics Part 1 Chapter 4 Online Test

Sr	Questions	Answers Choice
1	What is the dequeue operation in a queue.	<p>A. Removing an item from the front</p> <p>B. Adding an item to the back</p> <p>C. Sorting the queue</p> <p>D. Copying the queue</p>
2	Which of the following is a difference between trees and graphs.	<p>A. Trees have cycles</p> <p>B. Trees have many paths</p> <p>C. Trees have root ; graph may not</p> <p>D. Trees are more flexible</p>
3	True statement about the height of a tree.	<p>A. Number of edges from the root to the deepest node</p> <p>B. Number of nodes from the root to the deepest node</p> <p>C. Number of children of the root node</p> <p>D. Always equal to the number of nodes in the tree</p>
4	Which is the purpose of the push operation in a stack.	<p>A. Remove the bottom item</p> <p>B. Add an item to the top</p> <p>C. Search for an item</p> <p>D. Sort the stack</p>
5	Which principle does a stack follow.	<p>A. FIFO</p> <p>B. LIFO</p> <p>C. FILO</p> <p>D. LILO</p>
6	Which of the following best describes primitive computational structures.	<p>A. Advanced tools</p> <p>B. Complex Algorithms</p> <p>C. Basic building blocks of computing</p> <p>D. High level data types</p>
7	What is the height of a tree.	<p>A. No of nodes</p> <p>B. Longest path</p> <p>C. Memory used</p> <p>D. No of leaves</p>
8	Which operation removes an item by its value in a list.	<p>A. delete ()</p> <p>B. pop ()</p> <p>C. remove ()</p> <p>D. clear ()</p>
9	What is the dequeue operation in a queue.	<p>A. Adding an item to the back</p> <p>B. Removing an item from the front</p> <p>C. Sorting the queue</p> <p>D. Copying the queue</p>
10	In which structures can cycles exist.	<p>A. Graph</p> <p>B. Tree</p> <p>C. Stack</p> <p>D. Queue</p>
11	The operation used to add an item to a queue	<p>A. Dequeue</p> <p>B. Enqueue</p> <p>C. Remove</p>
12	Why are primitive computational structures important in computer science.	<p>A. They reduce memory</p> <p>B. They are for all software</p> <p>C. Only for web dev</p> <p>D. Increase hardware cost</p>
13	Which of the following is an application of lists.	<p>A. Storing a single number</p> <p>B. Implementing stacks and queues</p> <p>C. Creating images</p> <p>D. Playing music</p>

14	Which keyword checks if an item exists in a list	A. <code>in</code> B. <code>for</code> C. <code>if</code> D. <code>exists</code>
15	Which type of graph has edges with direction.	A. <code>Undirected graph</code> B. <code>Directed graph</code> C. <code>Weighted graph</code> D. <code>Binary graph</code>
16	What is a graph in data structures.	A. <code>A linear structure</code> B. <code>A hierarchical structure</code> C. <code>A set of vertices connected by edges.</code> D. <code>A type of array</code>
17	Which traversal is used for backing up files in a directory.	A. <code>In order</code> B. <code>Post Order</code> C. <code>Pre order</code> D. <code>Level order</code>
18	Which of the following is NOT a characteristic of a graph	A. <code>Vertices</code> B. <code>Edges</code> C. <code>One directional flow only</code> D. <code>Weighted or unweighted edges</code>
19	What does abstraction mean in computing.	A. <code>Hide data</code> B. <code>combine simple</code> C. <code>Parts into complex systems</code> D. <code>Use high level languages</code>
20	Which real life example follows the stack principle.	A. <code>Ticket line</code> B. <code>Browser back button</code> C. <code>Music playlist</code> D. <code>Email inbox</code>