

## Computer Science Ics Part 1 Chapter 4 Online Test

Sr	Questions	Answers Choice
1	Which of the following best describes primitive computational structures.	<p>A. &lt;p&gt;Advanced tools&lt;/p&gt;</p> <p>B. &lt;p&gt;Complex Algorithms&lt;/p&gt;</p> <p>C. &lt;p&gt;Basic building blocks of computing&lt;/p&gt;</p> <p>D. &lt;p&gt;High level data types&lt;/p&gt;</p>
2	What is a stack.	<p>A. &lt;p&gt;Add/remove at both ends&lt;/p&gt;</p> <p>B. &lt;p&gt;Add /remove from the top&lt;/p&gt;</p> <p>C. &lt;p&gt;Add front, remove back&lt;/p&gt;</p> <p>D. &lt;p&gt;No specific order&lt;/p&gt;</p>
3	An operation that removes an item from the top of the stack	<p>A. &lt;p&gt;Push&lt;/p&gt;</p> <p>B. &lt;p&gt;Pop&lt;/p&gt;</p> <p>C. &lt;p&gt;Peek&lt;/p&gt;</p> <p>D. &lt;p&gt;Add&lt;/p&gt;</p>
4	What is the dequeue operation in a queue.	<p>A. &lt;p&gt;Adding an item to the back&lt;/p&gt;</p> <p>B. &lt;p&gt;Removing an item from the front&lt;/p&gt;</p> <p>C. &lt;p&gt;Sorting the queue&lt;/p&gt;</p> <p>D. &lt;p&gt;Copying the queue&lt;/p&gt;</p>
5	What is a queue.	<p>A. &lt;p&gt;Add/remove from top&lt;/p&gt;</p> <p>B. &lt;p&gt;Add/remove from both ends&lt;/p&gt;</p> <p>C. &lt;p&gt;Add at back, remove from front&lt;/p&gt;</p> <p>D. &lt;p&gt;Store items randomly&lt;/p&gt;</p>
6	What is a leaf node.	<p>A. &lt;p&gt;A node with many children&lt;/p&gt;</p> <p>B. &lt;p&gt;A node with one child&lt;/p&gt;</p> <p>C. &lt;p&gt;A node with no children&lt;/p&gt;</p> <p>D. &lt;p&gt;A node with no parent&lt;/p&gt;</p>
7	Which of the following is NOT a primitive computational structure.	<p>A. &lt;p&gt;integers&lt;/p&gt;</p> <p>B. &lt;p&gt;Loops&lt;/p&gt;</p> <p>C. &lt;p&gt;Artificial intelligence&lt;/p&gt;</p> <p>D. &lt;p&gt;Boolean values&lt;/p&gt;</p>
8	Which traversal is used for backing up files in a directory.	<p>A. &lt;p&gt;In order&lt;/p&gt;</p> <p>B. &lt;p&gt;Post Order&lt;/p&gt;</p> <p>C. &lt;p&gt;Pre order&lt;/p&gt;</p> <p>D. &lt;p&gt;Level order&lt;/p&gt;</p>
9	What is the dequeue operation in a queue.	<p>A. &lt;p&gt;Removing an item from the front&lt;/p&gt;</p> <p>B. &lt;p&gt;Adding an item to the back&lt;/p&gt;</p> <p>C. &lt;p&gt;Sorting the queue&lt;/p&gt;</p> <p>D. &lt;p&gt;Copying the queue&lt;/p&gt;</p>
10	Which operation removes an item by its index in a list.	<p>A. &lt;p&gt;Pop()&lt;/p&gt;</p> <p>B. &lt;p&gt;delete ()&lt;/p&gt;</p> <p>C. &lt;p&gt;Remove()&lt;/p&gt;</p> <p>D. &lt;p&gt;clear ()&lt;/p&gt;</p>
11	Which of the following is a real world example of graph.	<p>A. &lt;p&gt;File system&lt;/p&gt;</p> <p>B. &lt;p&gt;Family tree&lt;/p&gt;</p> <p>C. &lt;p&gt;Social network&lt;/p&gt;</p> <p>D. &lt;p&gt;Web page navigation&lt;/p&gt;</p>
12	What is the degree of a vertex in a graph.	<p>A. &lt;p&gt;The number of loops&lt;/p&gt;</p> <p>B. &lt;p&gt;The number of edges connected to it&lt;/p&gt;</p> <p>C. &lt;p&gt;The total number of vertices&lt;/p&gt;</p> <p>D. &lt;p&gt;The weight of the vertex&lt;/p&gt;</p>
13	What is a graph in data structures.	<p>A. &lt;p&gt;A linear structure&lt;/p&gt;</p> <p>B. &lt;p&gt;A hierarchical structure&lt;/p&gt;</p> <p>C. &lt;p&gt;A set of vertices connected by edges.&lt;/p&gt;</p> <p>D. &lt;p&gt;A type of array&lt;/p&gt;</p>

14	What is the height of a tree.	A. <p>No of nodes</p> B. <p>Longest path&nbsp;</p> C. <p>Memory used</p> D. <p>No of leaves</p>
15	True statemtn about the height of a tree.	A. <p>Number of edges fromt he root to the deepest node</p> B. <p>Number of nodes from the root to the deepest node</p> C. <p>Number of children of the root node</p> D. <p>Always equal to the number of nodes in the tree</p>
16	Which real life example follows the stack principle.	A. <p>Ticket line</p> B. <p>Browser back button</p> C. <p>Music playlist</p> D. <p>Email inbox</p>
17	Which operation remvoes an item by its value in a list.	A. <p>delete ()</p> B. <p>pop ()</p> C. <p>remove()</p> D. <p>clear ()</p>
18	Which real life example represents an undirected graph.	A. <p>Twitter followers</p> B. <p>Facebook friendships</p> C. <p>On way streets</p> D. <p>Email spam links</p>
19	The opertion used to add an item to a queue	A. <p>Dequeue&nbsp;</p> B. <p>Enqueue</p> C. <p>Remove</p>
20	Which of the following best describes a tree.	A. <p>Graph with cycles</p> B. <p>Graph with no cycles and a root</p> C. <p>Random graph</p> D. <p>Circular graph</p>