

## Computer Science Ics Part 1 Online Test

Sr	Questions	Answers Choice
1	A scenario where a graph data structure is most suitable.	<p>A. &lt;p&gt;Managng a to do list&lt;/p&gt;</p> <p>B. &lt;p&gt;Modeling a line of customers in a store&amp;nbsp;&lt;/p&gt;</p> <p>C. &lt;p&gt;Representing connections in a social network&amp;nbsp;&lt;/p&gt;</p> <p>D. &lt;p&gt;All of the above&lt;/p&gt;</p>
2	Why are commonly used algorithms important.	<p>A. &lt;p&gt;Reduce hardware cost&lt;/p&gt;</p> <p>B. &lt;p&gt;Solve common Problems efficiently&lt;/p&gt;</p> <p>C. &lt;p&gt;Remvoe need for data structure&lt;/p&gt;</p> <p>D. &lt;p&gt;For theory only&lt;/p&gt;</p>
3	A prnciple of Design Thinking is.	<p>A. &lt;p&gt;Focusing on profits&lt;/p&gt;</p> <p>B. &lt;p&gt;Human centered approach&lt;/p&gt;</p> <p>C. &lt;p&gt;Minimizing risks&lt;/p&gt;</p> <p>D. &lt;p&gt;Emphasizing shrot term gains&lt;/p&gt;</p>
4	A collaborateive storytelling activity builds.	<p>A. &lt;p&gt;Blame&lt;/p&gt;</p> <p>B. &lt;p&gt;Teamwork&lt;/p&gt;</p> <p>C. &lt;p&gt;Isolation&lt;/p&gt;</p> <p>D. &lt;p&gt;Silence&lt;/p&gt;</p>
5	What is the main advantages of dynamic programming.	<p>A. &lt;p&gt;Avoid redundand work&lt;/p&gt;</p> <p>B. &lt;p&gt;Locally optimal results&lt;/p&gt;</p> <p>C. &lt;p&gt;Solves independent problems&lt;/p&gt;</p> <p>D. &lt;p&gt;Explore alloptions&lt;/p&gt;</p>
6	What is digital literacy.	<p>A. &lt;p&gt;Using mobile phones only&lt;/p&gt;</p> <p>B. &lt;p&gt;Reading Books&lt;/p&gt;</p> <p>C. &lt;p&gt;Using tech to find and share info&lt;/p&gt;</p> <p>D. &lt;p&gt;Typing fast&lt;/p&gt;</p>
7	The research ethics principl focused on honesty in reporting findings.	<p>A. &lt;p&gt;Confidentiality&lt;/p&gt;</p> <p>B. &lt;p&gt;Integrity&lt;/p&gt;</p> <p>C. &lt;p&gt;Informed Consent&lt;/p&gt;</p> <p>D. &lt;p&gt;Avoiding Bias&lt;/p&gt;</p>
8	Which measure indicates the "average" value in a dataset.	<p>A. &lt;p&gt;Mean&lt;/p&gt;</p> <p>B. &lt;p&gt;Median&lt;/p&gt;</p> <p>C. &lt;p&gt;Mode&lt;/p&gt;</p> <p>D. &lt;p&gt;Range&lt;/p&gt;</p>
9	Statistics is a brance of	<p>A. &lt;p&gt;Physics&lt;/p&gt;</p> <p>B. &lt;p&gt;Chemistry&lt;/p&gt;</p> <p>C. &lt;p&gt;Mathematics&lt;/p&gt;</p> <p>D. &lt;p&gt;Biology&lt;/p&gt;</p>
10	What do sorting algorithm mainly do.	<p>A. &lt;p&gt;Network routing&lt;/p&gt;</p> <p>B. &lt;p&gt;Arrange data&lt;/p&gt;</p> <p>C. &lt;p&gt;Find node links&lt;/p&gt;</p> <p>D. &lt;p&gt;Search data&lt;/p&gt;</p>
11	What is the purpose of the collaborative storytelling activity	<p>A. &lt;p&gt;To practice writing&lt;/p&gt;</p> <p>B. &lt;p&gt;To improve storytelling and creativity&lt;/p&gt;</p> <p>C. &lt;p&gt;to limti participation&lt;/p&gt;</p> <p>D. &lt;p&gt;To focus on individual ideas&lt;/p&gt;</p>
12	Which traversal is used for beacking 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>
13	The characteristic of a well defined problem is.	<p>A. &lt;p&gt;Ambiguous goals and uncelear requirements&lt;/p&gt;</p> <p>B. &lt;p&gt;Vegue processes and inputs&lt;/p&gt;</p> <p>C. &lt;p&gt;Clear goas, inpus, processes, and oututs&amp;nbsp;&lt;/p&gt;</p> <p>D. &lt;p&gt;Well defined inputs and outputs&lt;/p&gt;</p>

		D. <p>&lt;p&gt;Undrined solutions&lt;/p&gt;</p>
14	What does pdb do.	A. <p>&lt;p&gt;Compiles code&lt;/p&gt;</p> <p>B. <p>&lt;p&gt;Steps through and inspects code&lt;/p&gt;</p></p> <p>C. <p>&lt;p&gt;Writes tests&lt;/p&gt;</p></p> <p>D. <p>&lt;p&gt;Optimizes performance&lt;/p&gt;</p></p>
15	Which testing check the entire system as a whole.	A. <p>&lt;p&gt;Unit &amp;nbsp;&amp;nbsp;&amp;nbsp;Testing&lt;/p&gt;</p> <p>B. <p>&lt;p&gt;System Testing&lt;/p&gt;</p></p> <p>C. <p>&lt;p&gt;Integration Testing&lt;/p&gt;</p></p> <p>D. <p>&lt;p&gt;Debugging&lt;/p&gt;</p></p>
16	How is profit calcaulted	A. <p>&lt;p&gt;Revenue+ costs&lt;/p&gt;</p> <p>B. <p>&lt;p&gt;Revenue - Costs&lt;/p&gt;</p></p> <p>C. <p>&lt;p&gt;Revenue x costs&lt;/p&gt;</p></p> <p>D. <p>&lt;p&gt;Revenue / costs&lt;/p&gt;</p></p>
17	Which diagram shows P, NO, NP-hard, NP Complete	A. <p>&lt;p&gt;Bar chart&lt;/p&gt;</p> <p>B. <p>&lt;p&gt;Pie chart&lt;/p&gt;</p></p> <p>C. <p>&lt;p&gt;Venn diagram&lt;/p&gt;</p></p> <p>D. <p>&lt;p&gt;Lne graph&lt;/p&gt;</p></p>
18	How does Linear Search work.	A. <p>&lt;p&gt;Halve search interval&lt;/p&gt;</p> <p>B. <p>&lt;p&gt;Check each item one by oe&lt;/p&gt;</p></p> <p>C. <p>&lt;p&gt;Explore branch deeply&lt;/p&gt;</p></p> <p>D. <p>&lt;p&gt;Use queue for nodes&lt;/p&gt;</p></p>
19	Why practice indexing and slicaing	A. <p>&lt;p&gt;Not important&lt;/p&gt;</p> <p>B. <p>&lt;p&gt;Retrieve elemets efficiently&lt;/p&gt;</p></p> <p>C. <p>&lt;p&gt;Only for lists&lt;/p&gt;</p></p> <p>D. <p>&lt;p&gt;Only for strings&lt;/p&gt;</p></p>
20	Which type of grah has edges with direction.	A. <p>&lt;p&gt;Undirected graph&lt;/p&gt;</p> <p>B. <p>&lt;p&gt;Directed graph&lt;/p&gt;</p></p> <p>C. <p>&lt;p&gt;Weighted graph&lt;/p&gt;</p></p> <p>D. <p>&lt;p&gt;Binary graph&lt;/p&gt;</p></p>