

## Computer Science Ics Part 1 Chapter 1 Online Test

Sr	Questions	Answers Choice
1	Which design pattern helps notify multiple object about changes in one object	<p>A. &lt;p&gt;Observer&lt;/p&gt;            B. &lt;p&gt;Factory&lt;/p&gt;            C. &lt;p&gt;Strategy&lt;/p&gt;            D. &lt;p&gt;Singleton&lt;/p&gt;</p>
2	What does an activity diagram illustrate.	<p>A. &lt;p&gt;System architecture&lt;/p&gt;            B. &lt;p&gt;Flow of activities is a process&lt;/p&gt;            C. &lt;p&gt;Code structure&lt;/p&gt;            D. &lt;p&gt;Data Base Scheme&lt;/p&gt;</p>
3	Which tool translates high level code line-by-line	<p>A. &lt;p&gt;Compiler&lt;/p&gt;            B. &lt;p&gt;Interpreter&lt;/p&gt;            C. &lt;p&gt;Debugger&lt;/p&gt;            D. &lt;p&gt;Assembler&lt;/p&gt;</p>
4	What is the main purpose of testing in software development.	<p>A. &lt;p&gt;To write better code&lt;/p&gt;            B. &lt;p&gt;To document requirements&lt;/p&gt;            C. &lt;p&gt;To find bugs and ensure quality&lt;/p&gt;            D. &lt;p&gt;To plan timelines&lt;/p&gt;</p>
5	What is the first step in risk management.	<p>A. &lt;p&gt;Analyzing impact&lt;/p&gt;            B. &lt;p&gt;Monitoring risks&lt;/p&gt;            C. &lt;p&gt;Identifying risks&lt;/p&gt;            D. &lt;p&gt;Mitigating risks&lt;/p&gt;</p>
6	Which SDLC phase creates visual models of the system.	<p>A. &lt;p&gt;Design&lt;/p&gt;            B. &lt;p&gt;Requirement&lt;/p&gt;            C. &lt;p&gt;Coding&lt;/p&gt;            D. &lt;p&gt;Testing&lt;/p&gt;</p>
7	What is an IDE?	<p>A. &lt;p&gt;A code writer&lt;/p&gt;            B. &lt;p&gt;Tools in one interface&lt;/p&gt;            C. &lt;p&gt;Testing framework&lt;/p&gt;            D. &lt;p&gt;Deployment tool&lt;/p&gt;</p>
8	What is the main goal of software development?	<p>A. &lt;p&gt;Design hardware&lt;/p&gt;            B. &lt;p&gt;Create task specific programs&lt;/p&gt;            C. &lt;p&gt;Manage databases&lt;/p&gt;            D. &lt;p&gt;Develop marketing plans&lt;/p&gt;</p>
9	Which type of testing checks individual components of software.	<p>A. &lt;p&gt;Integration Testing&lt;/p&gt;            B. &lt;p&gt;System Testing&lt;/p&gt;            C. &lt;p&gt;Unit Testing&lt;/p&gt;            D. &lt;p&gt;Acceptance testing&lt;/p&gt;</p>
10	Which factor affects software cost estimation	<p>A. &lt;p&gt;Team size&lt;/p&gt;            B. &lt;p&gt;Number of stakeholders&lt;/p&gt;            C. &lt;p&gt;Technology stack&lt;/p&gt;            D. &lt;p&gt;All of the above&lt;/p&gt;</p>
11	Which SDLC phase includes continuous updates and bug fixes	<p>A. &lt;p&gt;Design&lt;/p&gt;            B. &lt;p&gt;Development&lt;/p&gt;            C. &lt;p&gt;Maintenance&lt;/p&gt;            D. &lt;p&gt;Requirement Gathering&lt;/p&gt;</p>
12	Which of the following is an online computing platform.	<p>A. &lt;p&gt;Visual Studio&lt;/p&gt;            B. &lt;p&gt;Repl .it&lt;/p&gt;            C. &lt;p&gt;Py Charm&lt;/p&gt;            D. &lt;p&gt;Eclipse&lt;/p&gt;</p>
13	Which phase of SDLC involves understanding user needs and expectations.	<p>A. &lt;p&gt;Design&lt;/p&gt;            B. &lt;p&gt;Requirement gathering&lt;/p&gt;            C. &lt;p&gt;Testing&lt;/p&gt;            D. &lt;p&gt;Deployment&lt;/p&gt;</p>
14	Which model works well for small projects with fixed requirements.	<p>A. &lt;p&gt;Agile&lt;/p&gt;            B. &lt;p&gt;Waterfall&lt;/p&gt;            C. &lt;p&gt;Spiral&lt;/p&gt;            D. &lt;p&gt;Devops&lt;/p&gt;</p>
		<p>A. &lt;p&gt;A language&lt;/p&gt;</p>

15	What is a framework in software development.	B. <p>Coding rules</p> C. <p>Testing tool</p> D. <p>Pre built structure</p>
16	Which design pattern allows interchangeable algorithms at runtime	A. <p>Singleton</p> B. <p>Strategy</p> C. <p>Factory</p> D. <p>Observer</p>
17	What is the benefit of using frameworks in development.	A. <p>Faster with reusable parts</p> B. <p>Slower</p> C. <p>More bugs</p> D. <p>Less secure</p>
18	Which UML diagram represents the structure of a system using classes and objects.	A. <p>Use Case Diagram</p> B. <p>Class Diagram</p> C. <p>Sequence diagram</p> D. <p>Activity diagram</p>
19	Which of the following best describes a design pattern.	A. <p>New language</p> B. <p>Reusable solution</p> C. <p>Type of DB</p> D. <p>Testing method</p>
20	Which of the following helps in managing large scale software projects.	A. <p>Frameworks</p> B. <p>Methodologies</p> C. <p>Tools</p> D. <p>All of the above</p>