✔ Congratulations! You passed!

Grade received 100%	**Latest Submission Grade** 100%	**To pass** 70% or higher

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1. Which of the following is a code storage tool?   **1 / 1 point**

- ◉ Git
- ○ HTML
- ○ IDE
- ○ Code Editor

✔ **Correct**
Correct! You can use Git to store your code.

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2. Which of the following technologies adds more styles and function to CSS?   **1 / 1 point**

- ○ SASS
- ○ MORE
- ○ HTML
- ◉ LESS

✔ **Correct**
Correct! Leaner CSS (LESS) uses JavaScript to add styles and functions to CSS.

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3. Which of the following statements is true regarding pair programming?   **1 / 1 point**

○ Pair programming requires two developers to be in the same physical location.

○ Most developers find pair programming to be an unproductive use of their time.

○ Pair programming always consists of one developer typing in the code while the other is reviewing the code as it's written.

◉ Pair programming is a type of agile development where two developers plan and discuss their ideas as they create a solution.

⊘ **Correct**
Correct! Pair programming is a type of agile development where the two developers can plan and discuss their ideas continually as they create a solution, generally resulting in a better end product.

4. Which of the following do version control systems help you keep track of?   **1 / 1 point**

◉ Who changed the code.

○ Bug reports.

○ Errors in the code.

○ Program flow.

⊘ **Correct**
Correct! Version control systems help you track what changes were made to the code, who made the changes, and when they were made.

5. Which type of software engineer develops the software that users interact with?   **1 / 1 point**

○ Network engineer

◉ Front-end engineer

○ Back-end engineers

○ Systems developer

⊘ **Correct**
Correct! Front-end engineers develop user interfaces.

6. Which of the following is an example of a hard skill?   **1 / 1 point**

◯ Problem solving

⦿ Cloud computing

◯ Communication

◯ Adaptability

⊘ **Correct**
Correct! Cloud computing is a hard skill which can be learned and measured.

7. Which of the following are reasons for the high demand for software engineers?   **1 / 1 point**

◯ There's a lack of people interested in the field.

⦿ Most organizations need software applications and websites.

◯ Many software engineers are retiring.

◯ Lots of software engineers are leaving the industry.

⊘ **Correct**
Correct! Because most organizations need software applications and websites for their company to function, more software engineers are needed.

8. A senior software engineer often: **1 / 1 point**

◯ Takes responsibility for the overall architecture and design of a product.

◯ Identifies hiring needs for a company.

⦿ Mentors other software engineers.

◯ Monitors the requirements for corporate technologies.

⊘ **Correct**

Correct! Senior software engineers often mentor their junior colleagues.

9. Which of the following is an advantage of using the software development lifecycle (SDLC)?   **1 / 1 point**

◉ Respond to changing requirements

◯ Increases risks

◯ Team members share the same roles and responsibilities

◯ Solve problems during the coding phase

   ⊘ **Correct**
   Correct! SDLC is an iterative process so at the end of a cycle the process can circle back to incorporate additional requirements

10. Which software development process verifies that the software matches established requirements and is free from bugs?   **1 / 1 point**

◯ Debugging

◯ Coding

◉ Testing

◯ Design

   ⊘ **Correct**
   Correct! Testing ensures that the software has no errors, gaps, or missing requirements.

11. Which of the following specifications specifies policy and regulation requirements?   **1 / 1 point**

◯ User Requirements Specification (URS)

◯ Application Requirements Specification (ARS)

◉ System Requirements Specification (SysRS)

◯ Software Requirements Specification (SRS)

⊘ **Correct**
Correct! The SysRS specifies policy and regulation requirements.

12.   **1 / 1 point**

Which of the following software development methodologies easily handles
changing requirements and enables feedback to be regularly incorporated into
the solution?

◯ Waterfall

◯ V-shape model

⦿ Agile

◯ Sequential

⊘ **Correct**
Correct! Agile development is an iterative model that uses quick, short
bursts of development.

13.   **1 / 1 point**

Fill in the blank. An attribute of an object is called a _____.

◯ instance

◯ blueprint

⦿ property

◯ class

⊘ **Correct**
Correct! Objects contain data or attributes which are called properties.

14. Which of the following is a characteristic of a component?   **1 / 1 point**

⦿ Extensible

◯ Repeatable

○ Context-specific

○ Revisable

⊘ **Correct**
Correct! Components should be extensible so new capabilities can easily
be added to them.

15. Which type of architecture is a computing model in which a server hosts,   **1 / 1 point**
delivers, and manages most of the resources and services delivered to a client?

○ Microservices

● 2-tier

○ 3-tier

○ Peer-to-peer

⊘ **Correct**
Correct! 2-tier architecture is also known as client-server architecture.

16.   **1 / 1 point**

Which environment is intended for use by all users?

○ QA

○ Development

● Production

○ Staging

⊘ **Correct**
Correct! The production environment is intended for all users.

17. Which one of the following is an example of an interpreted programming   **1 / 1 point**
language?

◉ JavaScript

○ Java

○ C++

○ C

✓ **Correct**
Correct! JavaScript is an example of an interpreted programming language.

18. What four key database operations does the acronym CRUD stand for?   **1 / 1 point**

○ Create, Read, Undo, Detain

○ Correct, Randomize, Undo, Delete

○ Correct, Read, Update, Detain

◉ Create, Read, Update, Delete

✓ **Correct**
Correct! These are the query language terms referred to by CRUD.

19. The "While" keyword is used to perform which of the following type of programming logic?   **1 / 1 point**

○ Branch

○ For

◉ Loop

○ If

✓ **Correct**
Correct! The While keyword is used to create a loop.

20. What is the name of a special type of identifier that you can use to reference multiple program elements?   **1 / 1 point**

○ Variable

○ Constant

⦿ Container

○ Identifier

⊘ **Correct**

Correct! You can use a container to reference multiple elements.