✅ **Congratulations! You passed!**

| **Grade** received 80% | **Latest Submission Grade** 80% | **To pass** 70% or higher |

Go to next item

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

○ Code Editor
○ HTML
○ IDE
◉ Git

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

2. Which of the following technologies adds more styles and function to CSS?   0 / 1 point

○ HTML
○ LESS
◉ SASS
○ MORE

✕ **Incorrect**
Incorrect. Please review Learning Front-End Development.

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.
◉ Pair programming is a type of agile development where two developers plan and discuss their ideas as they create a solution.
○ Pair programming always consists of one developer typing in the code while the other is reviewing the code as it's written.
○ Most developers find pair programming to be an unproductive use of their time.

✓ **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

○ Errors in the code.
◉ Who changed the code.
○ Program flow.
○ Bug reports.

✓ **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

○ Systems developer
○ Network engineer
○ Back-end engineers
◉ Front-end engineer

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

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

- ◉ Cloud computing
- ○ Problem solving
- ○ Communication
- ○ Adaptability

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

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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.
- ○ Lots of software engineers are leaving the industry.
- ◉ Most organizations need software applications and websites.
- ○ Many software engineers are retiring.

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

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8. A senior software engineer often: `0 / 1 point`

- ○ Mentors other software engineers.
- ○ Identifies hiring needs for a company.
- ○ Monitors the requirements for corporate technologies.
- ◉ Takes responsibility for the overall architecture and design of a product.

> ✗ **Incorrect**
> Incorrect. Please review Career Paths in Software Engineering.

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

- ○ Solve problems during the coding phase
- ○ Increases risks
- ◉ Respond to changing requirements
- ○ Team members share the same roles and responsibilities

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

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

- ○ Design
- ○ Debugging
- ◉ Testing
- ○ Coding

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

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

- ◉ System Requirements Specification (SysRS)
- ○ Application Requirements Specification (ARS)
- ○ User Requirements Specification (URS)
- ○ Software Requirements Specification (SRS)

> ✓ **Correct**
> Correct! The SysRS specifies policy and regulation requirements.

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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?

- ○ Sequential
- ○ Waterfall
- ○ V-shape model
- ◉ Agile

✓ **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 _____.

- ○ blueprint
- ○ instance
- ◉ property
- ○ class

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

14. Which of the following is a characteristic of a component? 0 / 1 point

- ◉ Context-specific
- ○ Revisable
- ○ Repeatable
- ○ Extensible

✗ **Incorrect**
Incorrect. Please review Approaches to Application Architecture.

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

- ○ Microservices
- ○ 3-tier
- ○ Peer-to-peer
- ◉ 2-tier

✓ **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?

- ○ Staging
- ○ QA
- ○ Development
- ◉ Production

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

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

- ○ C
- ◉ JavaScript
- ○ Java
- ○ 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, Update, Delete
- ○ Create, Read, Undo, Detain
- ○ Correct, Read, Update, Detain
- ○ Correct, Randomize, Undo, 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

- ◉ Loop
- ○ For
- ○ If
- ○ Branch

⊘ **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?

0 / 1 point

- ○ Identifier
- ○ Container
- ◉ Variable
- ○ Constant

⊗ **Incorrect**
Incorrect. Please review Introduction to Programming Concepts Part 1.