

✔ Congratulations! You passed!

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Go to next item

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

1 / 1 point

- ☐ Code Editor
- ☒ Git
- ☐ IDE
- ☐ HTML

✔ Correct

Correct! You can use Git to store your code.

2. Which of the following technologies adds more styles and function to CSS?

1 / 1 point

- ☐ MORE
- ☐ HTML
- ☐ SASS
- ☒ LESS

✔ Correct

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

3. Which of the following statements is true regarding pair programming?

1 / 1 point

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

- ☐ Errors in the code.
- ☐ Bug reports.
- ☐ Program flow.
- ☒ Who changed the code.

✔ 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

- ☒ Front-end engineer
- ☐ Systems developer
- ☐ Network engineer
- ☐ Back-end engineers

✔ Correct

Correct! Front-end engineers develop user interfaces.

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

1 / 1 point

- ☐ Adaptability
- ☐ Problem solving
- ☒ Cloud computing
- ☐ Communication

✔ 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

- ☐ Lots of software engineers are leaving the industry.
- ☐ Many software engineers are retiring.
- ☒ Most organizations need software applications and websites.
- ☐ There's a lack of people interested in the field.

✔ 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

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

✔ 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

- ☐ 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

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

1 / 1 point

- ☒ Testing
- ☐ Coding
- ☐ Debugging
- ☐ 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

- ☒ System Requirements Specification (SysRS)
- ☐ Software Requirements Specification (SRS)
- ☐ User Requirements Specification (URS)
- ☐ Application Requirements Specification (ARS)

✔ 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
- ☒ Agile
- ☐ Sequential
- ☐ V-shape model

✔ 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 _____.

- ☒ property
- ☐ instance
- ☐ blueprint
- ☐ 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

- ☐ Repeatable
- ☐ Revisable
- ☒ Extensible
- ☐ Context-specific

✔ 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, delivers, and manages most of the resources and services delivered to a client?

1 / 1 point

- ☐ 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
- ☐ Staging
- ☒ Production
- ☐ Development

✔ 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++
- ☐ C
- ☒ JavaScript
- ☐ Java

✔ 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, Randomize, Undo, Delete
- ☐ Correct, Read, Update, Detain

✔ 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

- ☐ If
- ☐ Branch
- ☒ Loop
- ☐ For

✔ 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

- ☐ Constant
- ☒ Container
- ☐ Variable
- ☐ Identifier

✔ Correct

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