QUIZ TEST

Training Title: Full Stack Web Development
Batch: SUB-JNU I01
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[NB] Each question carries 1 mark.

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1. A full stack developer is familiar with….

a) Front-end Technology   a) Back-end Technology

c) API Development   d) All

Ans: d) All

2. What is the primary goal of the Single Responsibility Principle (SRP)?

a) A class should have only one method.

b) A class should have only one reason to change.

c) A class should handle all responsibilities of a module.

Ans: b) A class should have only one reason to change.

3. Which principle suggests that clients should not be forced to depend on interfaces they do not use?

a) Single Responsibility Principle (SRP)

b) Open/Closed Principle (OCP)

c) Liskov Substitution Principle (LSP)

d) Interface Segregation Principle (ISP)

Ans: d) Interface Segregation Principle (ISP)

4. What is the purpose of the DRY (Don't Repeat Yourself) principle?

a) To ensure that code is repeated for better readability.

b) To reduce redundancy by reusing code.

c) To make code more complex.

d) To enforce strict coding standards.

Ans: b) To reduce redundancy by reusing code.

5. What does the KISS (Keep It Simple, Stupid) principle emphasize?

a) Writing complex code to handle all possible scenarios.

b) Using advanced design patterns in all situations.

c) Keeping code as simple and understandable as possible.

d) Avoiding documentation to save time.

Ans: c) Keeping code as simple and understandable as possible.

6. Which of the following is a key practice in Agile development?

a) Conducting daily stand-up meetings to track progress.

b) Writing detailed specifications before starting development.

c) Avoiding customer feedback until the final release.

d) Completing all testing at the end of the project.

Ans: a) Conducting daily stand-up meetings to track progress.

7. What is the purpose of a "sprint" in Agile development?

a) To complete the entire project in one go.

b) To deliver a potentially shippable product increment at the end of a
   fixed time period.

c) To write all the documentation for the project.

d) To conduct final testing before release.

Ans: b) To deliver a potentially shippable product increment at the end of a fixed
time period.

8. How do you declare an input field in HTML to submit data as an array?

a) <input type="text" name="user[name]">

b) <input type="text" name="user{}">

c) <input type="text" name="user[]">

d) <input type="text" name="user()">

Ans: c) <input type="text" name="user[]">

9. What is a "code smell" in software development?

a) A syntax error that prevents code from running

b) A part of the code that looks suspicious and may indicate a problem or poor design

c) A form of malware in the code

d) A missing function in the codebase

Ans: b) A part of the code that looks suspicious and may indicate a problem or poor design

10. Which of the following styles will be applied if multiple rules target the same element?

```
p { color: blue !important; }
p { color: red; }
```

a) The paragraph will be red

b) The paragraph will be blue

c) The paragraph will have no color applied

d) The behavior is unpredictable

Ans: b) The paragraph will be blue

11. What will be logged to the console in the following JavaScript code?

```
let x = 10;
function test() {
        let x = 20;
        console.log(x);
}
test();
console.log(x);
```

a) 20, 10   b) 20, 20   c) 10, 10   d) 10, 20

Ans: a) 20, 10

12. Which of the following is a valid JSON format?

a) { name: 'John', age: 30 }

b) { "name": "John", "age": 30 }

c) { name = "John"; age = 30; }

d) { "name": John, "age": 30 }

Ans: b) { "name": "John", "age": 30 }

13. What is the main purpose of AJAX in web development?

a) To reload the entire webpage after every user action

b) To create animations on a webpage

c) To style web pages dynamically

d) To fetch and update data asynchronously without refreshing the page

Ans: d) To fetch and update data asynchronously without refreshing the page

14. Which Bootstrap class is used to create a responsive grid column that takes full width on extra-small screens but half-width on medium screens?

a) .col-12 .col-md-6

b) .col-sm-6 .col-md-12

c) .col-xs-6 .col-lg-12

d) .col-md-6 .col-xl-12

Ans: a) .col-12 .col-md-6

15. What will be the output of the following PHP code?

```
$person = array("name" => "John", "age" => 30);
echo $person["name"];
```

a) name   b) 30   c) John   d) Error

Ans: c) John

16. In Git, which command is used to check the status of your working directory and staged changes?

 a) git commit   b) git status   c) git push   d) git merge

Ans: b) git status

17. What does the mysql_fetch_object() function do in PHP?

 a) Fetches a row from a MySQL result and set as an associative array

 b) Executes a MySQL query and returns the result

 c) Fetches multiple rows at once from a MySQL result set

 d) Fetches a row from a MySQL result and set as an object

Ans: d) Fetches a row from a MySQL result and set as an object

18. What is the primary purpose of using prepared statements in PHP?

 a) To improve the performance of database queries.

 b) To prevent SQL injection attacks.

 c) To reduce the amount of code written.

 d) To make database connections faster.

Ans: b) To prevent SQL injection attacks.

19. How can you store a value in a session variable in PHP?

 a) $_SESSION['variable'] = value;   b) session['variable'] = value;

 c) session_set('variable', value);   d) session_add('variable', value);

Ans: a) $_SESSION['variable'] = value;

20. Which of the following is a common method to prevent XSS attacks in web applications?

 a) Disabling JavaScript

 b) Validating and sanitizing user input

 c) Using static IP addresses for users

 d) Encrypting the entire webpage

Ans: b) Validating and sanitizing user input