

"D-Coder Web Wizards: The Ultimate Web Development Challenge" 🚀🔥

📌 Welcome to the D-Coder Web Wizards Challenge! 🚀🔥

This is an **advanced-level web development screening test** designed to evaluate your skills in **HTML, CSS, JavaScript, React, and more!**

💠 Test Format:

- ✅ **MCQs** – Test your core knowledge
- ✅ **Fill in the Blanks** – Sharpen your basics
- ✅ **True/False** – Identify common misconceptions
- ✅ **Coding Challenges** – Prove your problem-solving skills
- ✅ **Input-Output Scenarios** – Decode web behaviors

📢 Rules & Guidelines:

- **Mandatory for all members**
- If you miss **3 tests**, you will be removed from the group
- Be honest—no external help!

🕒 **Test Date: Sunday, March 30, 2025**

⌚ **Timing: 8:00 PM to 8:30 PM**

🔥 **Do you have what it takes to be a Web Wizard? Let's find out!** 💻🌟

* Indicates required question

1. Email *

2. CU ID *

3. Name *

4. Year *

Mark only one oval.

☐ 1st Year

☐ 2nd Year

☐ 3rd Year

☐ 4th Year

5. Section *

Mark only one oval.

☐ A

☐ B

☐ C

☐ D

6. Phone Number *

Section 1: Fill in the Blanks (5 Questions)

(All questions are Fill in the blanks Questions)

7. 1. The _____ property in CSS is used to create a flex container. * 1 point

8. 2. _____ is a JavaScript method that returns a new array after filtering elements based on a condition. * 1 point

9. 3. In React, _____ hook is used for handling side effects. * 1 point

10. 4. The HTTP status code _____ indicates unauthorized access. * 1 point

11. 5. _____ is the process of bundling JavaScript modules into a single file. * 1 point

Section 2: Multiple Choice Questions (10 Questions)

(All questions are Multiple Choice Questions)

12. 6. Which of the following is used to define variables in CSS? *

1 point

Mark only one oval.

- ☐ a) var(--variable-name)
- ☐ b) let variable-name
- ☐ c) \$variable-name
- ☐ d) define-variable()

13. 7. What is the purpose of the async keyword in JavaScript? *

1 point

Mark only one oval.

- ☐ a) To define an asynchronous function
- ☐ b) To create a synchronous function
- ☐ c) To make a function run automatically
- ☐ d) To execute a function in parallel

14. 8. Which of these is NOT a valid HTTP request method? *

1 point

Mark only one oval.

- ☐ a) GET
- ☐ b) POST
- ☐ c) FETCH
- ☐ d) DELETE

15. 9. Which JavaScript framework uses the Virtual DOM? *

1 point

Mark only one oval.

- ☐ a) Angular
- ☐ b) Vue.js
- ☐ c) React
- ☐ d) Svelte

16. 10. What is the primary purpose of WebSockets? *

1 point

Mark only one oval.

- ☐ a) To store data in the browser
- ☐ b) To enable real-time communication
- ☐ c) To make API requests faster
- ☐ d) To handle authentication

17. 11. Which CSS property makes an element stay fixed while scrolling? *

1 point

Mark only one oval.

- ☐ a) relative
- ☐ b) fixed
- ☐ c) absolute
- ☐ d) static

18. 12. Which of the following is NOT a JavaScript data type? *

1 point

Mark only one oval.

- ☐ a) Boolean
- ☐ b) Undefined
- ☐ c) Float
- ☐ d) Symbol

19. 13. Which HTTP method is used to update an existing resource? *

1 point

Mark only one oval.

- ☐ a) POST
- ☐ b) PUT
- ☐ c) DELETE
- ☐ d) GET

20. 14. Which of these is a correct way to define a function in JavaScript? *

1 point

Mark only one oval.

- ☐ a) `function myFunc() {}`
- ☐ b) `let myFunc = function() {}`
- ☐ c) `const myFunc = () => {}`
- ☐ d) All of the above

21. 15. Which of the following is NOT a valid CSS selector? *

1 point

Mark only one oval.

- ☐ a) #id-selector
- ☐ b) .class-selector
- ☐ c) @media-selector
- ☐ d) [attribute-selector]

Section 3: Coding Questions (10 Questions)

(All questions are Multiple Choice Questions,

Fill in the blanks and True/False)

22. 16. **What will be the output of the following JavaScript code? ***

1 point

```
console.log(typeof null);
```

Mark only one oval.

- ☐ A) "null"
- ☐ B) "object"
- ☐ C) "undefined"
- ☐ D) "number"

23. 17. In HTML, the <input> element with the type "_____" is used for passwords.

* 1 point

24. 18. What will be the output of the following Python code? *

1 point

```
print("5" * 3)
```

Mark only one oval.

- ☐ Ok
- ☐ B) 555
- ☐ C) TypeError
- ☐ D) None

25. 19. In JavaScript, we use the _____ keyword to declare a constant variable.

* 1 point

26. 20. Which of the following will remove an element from an array in JavaScript?

* 1 point

Mark only one oval.

- ☐ A) array.remove(2)
- ☐ B) array.pop(2)
- ☐ C) array.splice(2, 1)
- ☐ D) array.delete(2)

27. 21. The _____ tag is used in HTML to define an unordered list. *

1 point

28. 22. In JavaScript, _____ is used to round a number to the nearest integer.

* 1 point

29. 23. The localStorage in JavaScript stores data that gets deleted when the browser is closed. * 1 point

Mark only one oval.

- ☐ True
☐ False

30. 24. In React, a component can have multiple useState hooks. * 1 point

Mark only one oval.

- ☐ True
☐ False

31. 25. The <meta> tag in HTML is used to create links to external stylesheets. * 1 point

Mark only one oval.

- ☐ True
☐ False

Section 4: Input-Output Questions (5 Questions)

(All questions are Multiple Choice Questions)

32. **26. What will be the output of the following JavaScript code? ***

1 point

```
let x = 5 + "5";  
console.log(typeof x);
```

Mark only one oval.

- ☐ A) number
- ☐ B) string
- ☐ C) NaN
- ☐ D) undefined

33. **27. What will be the output of this Python snippet? ***

1 point

```
def test(a, b=[]):  
    b.append(a)  
    return b  
print(test(1))  
print(test(2))
```

Mark only one oval.

- ☐ A) [1], [2]
- ☐ B) [1], [1, 2]
- ☐ C) [1, 2], [1, 2]
- ☐ D) SyntaxError

34. 28. If the following HTML and CSS code is executed, what will be the color of the text? * 1 point

html

```
<p class="text">Hello, World!</p>
```

css

```
.text {  
  color: red !important;  
  color: blue;  
}
```

Mark only one oval.

- ☐ A) Red
- ☐ B) Blue
- ☐ C) Black
- ☐ D) Undefined

35. 29. What will be the output of the following React code? * 1 point

```
function App() {  
  const [count, setCount] = React.useState(0);  
  function increment() {  
    setCount(count + 1);  
    setCount(count + 1);  
  }  
  return <button onClick={increment}>{count}</button>;  
}
```

Mark only one oval.

- ☐ A) Increases by 1 on click
- ☐ B) Increases by 2 on click
- ☐ C) Remains 0
- ☐ D) Throws an error

36. 30. **Given the URL**

*

1 point

`https://example.com/?name=John&age=25`**How can you extract the value of the name parameter in JavaScript.***Mark only one oval.*

- ☐ A) `new URLSearchParams(window.location.search).get("name")`
- ☐ B) `window.location.search.split("=")[1].split("&")[0]`
- ☐ C) `new URL(window.location.href).name`
- ☐ D) [document.URL.name](#)

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