

## **WPL - Pgm 12**

### **OnlineExam.html**

```
<!DOCTYPE html>

<html>

<head>

    <title>JavaScript Online Exam</title>

<style>

    body {

        font-family: Arial;

        background-color: #f4f4f4;

        padding: 10px;

    }

    .quiz-container {

        background: white;

        padding: 20px;

        border: 1px solid black;

        width: 600px;

        margin: 10px auto;

    }

    h2 {

        color: black;

        border-bottom: 1px solid black;

        padding-bottom: 5px;

    }

    .question {

        margin-bottom: 15px;

        padding: 10px;

        border: 1px dashed gray;

    }

}
```

```
.question p {
    font-weight: bold;
    margin-bottom: 10px;
}

.options label {
    display: block;
    margin: 5px 0;
}

button {
    padding: 8px 15px;
    background-color: blue;
    color: white;
    border: 1px solid black;
    cursor: pointer;
}

</style>
</head>
<body>
<div class="quiz-container">
    <h2>Web Programming Quiz</h2>
    <form id="quizForm">
        <div class="question">
            <p>1. What is the programming language of the Web?</p>
            <div class="options">
                <input type="radio" name="q1" value="A" id="q1a"><label
for="q1a">Java</label><br>
                <input type="radio" name="q1" value="B" id="q1b"><label
for="q1b">JavaScript</label><br>
```

```
        <input type="radio" name="q1" value="C" id="q1c"><label  
for="q1c">Python</label><br>
```

```
    </div>
```

```
</div>
```

```
<div class="question">
```

```
    <p>2. Which JavaScript object has no constructor and uses static  
methods?</p>
```

```
    <div class="options">
```

```
        <input type="radio" name="q2" value="A" id="q2a"><label  
for="q2a">String</label><br>
```

```
        <input type="radio" name="q2" value="B" id="q2b"><label  
for="q2b">Array</label><br>
```

```
        <input type="radio" name="q2" value="C" id="q2c"><label  
for="q2c">Math</label><br>
```

```
    </div>
```

```
</div>
```

```
<div class="question">
```

```
    <p>3. Which method returns the value of x rounded UP to its nearest  
integer?</p>
```

```
    <div class="options">
```

```
        <input type="radio" name="q3" value="A" id="q3a"><label  
for="q3a">Math.round(x)</label><br>
```

```
        <input type="radio" name="q3" value="B" id="q3b"><label  
for="q3b">Math.floor(x)</label><br>
```

```
        <input type="radio" name="q3" value="C" id="q3c"><label  
for="q3c">Math.ceil(x)</label><br>
```

```
    </div>
```

```
</div>
```

```
<div class="question">
```

```
    <p>4. The HTML DOM model is constructed as a tree of...</p>
```

```
    <div class="options">
```

```
<input type="radio" name="q4" value="A" id="q4a"><label  
for="q4a">Data Types</label><br>
```

```
<input type="radio" name="q4" value="B" id="q4b"><label  
for="q4b">Strings</label><br>
```

```
<input type="radio" name="q4" value="C" id="q4c"><label  
for="q4c">Objects</label><br>
```

```
</div>
```

```
</div>
```

```
<div class="question">
```

```
<p>5. Array indexes in JavaScript are typically... </p>
```

```
<div class="options">
```

```
<input type="radio" name="q5" value="A" id="q5a"><label  
for="q5a">One-based</label><br>
```

```
<input type="radio" name="q5" value="B" id="q5b"><label  
for="q5b">Zero-based</label><br>
```

```
<input type="radio" name="q5" value="C" id="q5c"><label  
for="q5c">String-based</label><br>
```

```
</div>
```

```
</div>
```

```
<div class="question">
```

```
<p>6. The getMonth() method returns the month as a number ranging  
from...</p>
```

```
<div class="options">
```

```
<input type="radio" name="q6" value="A" id="q6a"><label  
for="q6a">1 to 12</label><br>
```

```
<input type="radio" name="q6" value="B" id="q6b"><label  
for="q6b">0 to 11</label><br>
```

```
<input type="radio" name="q6" value="C" id="q6c"><label  
for="q6c">1 to 31</label><br>
```

```
</div>
```

```
</div>
```

```
<div class="question">
```

```
<p>7. JavaScript objects are written with which type of bracket?</p>
```

```
<div class="options">
```

```
<input type="radio" name="q7" value="A" id="q7a"><label  
for="q7a">Square Brackets []</label><br>
```

```
<input type="radio" name="q7" value="B" id="q7b"><label  
for="q7b">Parentheses ()</label><br>
```

```
<input type="radio" name="q7" value="C" id="q7c"><label  
for="q7c">Curly Braces {}</label><br>
```

```
</div>
```

```
</div>
```

```
<div class="question">
```

```
<p>8. Which operator can be used to add (concatenate) strings?</p>
```

```
<div class="options">
```

```
<input type="radio" name="q8" value="A" id="q8a"><label  
for="q8a">- (Subtraction)</label><br>
```

```
<input type="radio" name="q8" value="B" id="q8b"><label  
for="q8b">+ (Addition)</label><br>
```

```
<input type="radio" name="q8" value="C" id="q8c"><label  
for="q8c">! (Logical NOT)</label><br>
```

```
</div>
```

```
</div>
```

```
<div class="question">
```

```
<p>9. The most common way to access an HTML element is by  
its...</p>
```

```
<div class="options">
```

```
<input type="radio" name="q9" value="A" id="q9a"><label  
for="q9a">Tag Name</label><br>
```

```
<input type="radio" name="q9" value="B" id="q9b"><label  
for="q9b">Class Name</label><br>
```

```
<input type="radio" name="q9" value="C" id="q9c"><label  
for="q9c">ID</label><br>
```

```
</div>

</div>

<div class="question">
  <p>10. The DOM Level 2 method to register an event handler is...</p>
  <div class="options">
    <input type="radio" name="q10" value="A" id="q10a"><label
for="q10a">onclick</label><br>
    <input type="radio" name="q10" value="B" id="q10b"><label
for="q10b">attachEvent</label><br>
    <input type="radio" name="q10" value="C" id="q10c"><label
for="q10c">addEventListener</label><br>
  </div>
</div>

<button type="button" onclick="checkAnswers()">Submit</button>
</form>

<div id="results"></div>
</div>

<script>
function checkAnswers() {
  const correctAnswers = {
    q1: 'B',
    q2: 'C',
    q3: 'C',
    q4: 'C',
    q5: 'B',
    q6: 'B',
    q7: 'C',
    q8: 'B',
    q9: 'C',
    q10: 'C'
```

```

    };

    let score = 0;

    const totalQuestions = Object.keys(correctAnswers).length;

    const form = document.getElementById('quizForm');

    const resultsDiv = document.getElementById('results');

    for (let i = 1; i <= totalQuestions; i++) {

        const questionName = 'q' + i;

        const selectedOption = form.elements[questionName].value;

        if (selectedOption === correctAnswers[questionName]) {

            score++;

        }

    }

    const percentage = (score / totalQuestions) * 100;

    resultsDiv.innerHTML = `

        <p>Result:</p>

        <p>Score: ${score} / ${totalQuestions}</p>

        <p>Percentage: ${percentage.toFixed(1)}%</p>

    `;

}

</script>

</body>

</html>

```

### **QuizScript.js**

```

function checkAnswers() {

    const correctAnswers = {

        q1: 'B',

        q2: 'C',

        q3: 'C',

```

```
    q4: 'C'
  };

  let score = 0;

  const totalQuestions = Object.keys(correctAnswers).length;
  const form = document.getElementById('quizForm');
  const resultsDiv = document.getElementById('results');

  for (let i = 1; i <= totalQuestions; i++) {
    const questionName = 'q' + i;
    const selectedOption = form.elements[questionName].value;
    if (selectedOption === correctAnswers[questionName]) {
      score++;
    }
  }

  resultsDiv.innerHTML = `
    <p>Quiz Completed!</p>
    <p>Your Score: ${score} out of ${totalQuestions}</p>
    <p>${(score / totalQuestions) * 100}% Correct</p>
  `;
}
```



## Output

### Web Programming Quiz

1. What is the programming language of the Web?

☐

Java

☒

JavaScript

☐

Python

2. Which JavaScript object has no constructor and uses static methods?

☐

String

☐

Array

☒

Math

3. Which method returns the value of x rounded UP to its nearest integer?

☐

Math.round(x)

☐

Math.floor(x)

☒

Math.ceil(x)

4. The HTML DOM model is constructed as a tree of...

☐

Data Types

☐

Strings

☒

Objects

5. Array indexes in JavaScript are typically...

☐

One-based

- ☒ Zero-based
- ☐ String-based

**6. The getMonth() method returns the month as a number ranging from...**

- ☐ 1 to 12
- ☒ 0 to 11
- ☐ 1 to 31

**7. JavaScript objects are written with which type of bracket?**

- ☐ Square Brackets []
- ☐ Parentheses ()
- ☒ Curly Braces {}

**8. Which operator can be used to add (concatenate) strings?**

- ☐ - (Subtraction)
- ☒ + (Addition)
- ☐ ! (Logical NOT)

**9. The most common way to access an HTML element is by its...**

- ☐ Tag Name
- ☐ Class Name
- ☒ ID

**10. The DOM Level 2 method to register an event handler is...**

- ☐ onclick

☐ attachEvent()

☒ addEventListener()

Submit

Result:

Score: 10 / 10

Percentage: 100.0%