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WGU C777 Web Development Applications Post Assessment | 100% Correct Answers | Verified | Latest 2024 Version

Which of the following statements about HTML5 is true? - ✓✓HTML5 does not require third-party plugins for video and audio content

What is the purpose of using the <output> element in a Web form? - ✓✓It displays the result of a calculation in the form

Why are syntax errors so common when writing JavaScript code? - ✓✓Because JavaScript is case-specific

What CSS3 property can be used to create rounded corners on an image or other element? - ✓✓border-radius

What type of JavaScript expression evaluates to true or false? - ✓✓Logical

Which statement is true about JavaScript? - ✓✓JavaScript is widely used for client-side and server-side scripts

You have created a Web page using the HTML5 <nav> structural element to define a navigation area. Consider the following external style sheet code:

```
nav {  
  float:left;  
  width:165px;  
  background:#d8d8d8 url(background.gif) top right;  
  height:662px;  
}
```

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WGU Web-Development-Applications Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> • HTML5, CSS3, and JavaScript Foundations: This section of the exam measures skills of Web Developers and covers the essential ability to manually code using HTML5, CSS3, and JavaScript to create structured, visually styled, and interactive web content. It focuses on building accurate page layouts, applying modern styling rules, and writing basic scripts that support user interaction. The aim is to ensure candidates can construct professional web documents using current standards and properly integrate all three technologies.
Topic 2	<ul style="list-style-type: none"> • Creating Adaptive Web Documents and Pages: This section of the exam measures skills of Front-End Designers and covers the techniques needed to make websites display correctly across traditional desktops and mobile devices. It emphasizes adaptive page layout, flexible formatting, and user-friendly presentation so that content remains readable and functional on screens of different sizes. Candidates are expected to show an understanding of how to create consistent designs that respond smoothly to device changes.
Topic 3	<ul style="list-style-type: none"> • Responsive Web Design (RWD) for Browsers and Apps: This section of the exam measures skills of Front-End Designers and covers concepts related to mobile-first layout planning, responsive frameworks, and techniques used to ensure compatibility with modern browsers and applications. Candidates must demonstrate how to adjust elements for better usability on mobile devices and apply responsive strategies that allow a single design to function seamlessly across various environments.
Topic 4	<ul style="list-style-type: none"> • Validation, Testing, and Form Development: This section of the exam measures skills of Web Developers and covers the ability to validate code, test web pages for accuracy, and build form components. It includes understanding how to detect errors, ensure compliance with standards, and implement form fields with inline validation to improve user experience. The focus is on creating forms that work reliably, meet usability expectations, and maintain proper data entry flow.

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WGU Web Development Applications Sample Questions (Q42-Q47):

NEW QUESTION # 42

Which element attaches an external CSS document to a web page?

- A. <Meta>
- B. <Script>
- C. <style>
- D. <Link>

Answer: D

Explanation:

To attach an external CSS document to a web page, the<link>element is used within the<head>section of the HTML document.

* <link> Element:

* Purpose: Links external resources, such as stylesheets, to the HTML document.

* Attributes:

* rel="stylesheet": Specifies the relationship between the current document and the linked resource.

* href="path/to/stylesheet.css": Specifies the URL of the external stylesheet.

* Example:

<head>

```
<link rel="stylesheet" href="styles.css">
```

```
</head>
```

* Other Options:

* `<style>`: Used to embed internal CSS directly within the HTML document, not for linking external CSS.

* `<script>`: Used to embed or link to JavaScript files.

* `<meta>`: Provides metadata about the HTML document, not for linking stylesheets.

:

W3C HTML5 Specification - The `link` element

MDN Web Docs - `<link>`

By using the `<link>` element correctly, you can ensure that your web page is styled with external CSS, maintaining a separation of concerns and making your HTML more manageable.

NEW QUESTION # 43

Which code segment contains a conditional expression?

- A. `var result = count > 10 ? "Done" : getResult();`
- B. `var result = count++ > 10;`
- C. `var result = dataCount;`
- D. `var result = aCount * 1000 == 3000000;`

Answer: A

Explanation:

> "The conditional (ternary) operator `'? :'` is a shortcut for an `'if...else'` statement. It is the only operator in JavaScript that takes three operands: a condition followed by a question mark (`?`), an expression to execute if the condition is true, and another expression if false." Example:

```
```javascript
var result = condition ? value1 : value2;
```
```

References:

* MDN Web Docs: Conditional (ternary) operator

* ECMAScript Specification: ConditionalExpression

NEW QUESTION # 44

Given the following HTML code:

□ Which line of code should replace the first line to ensure that users can pause and restart the video?

- A. □
- B. □
- C. □
- D. □

Answer: B

Explanation:

To ensure that users can pause and restart the video, the `controls` attribute needs to be added to the `<video>` tag. This attribute provides the user with controls to play, pause, and adjust the volume of the video. The correct line of code that should replace the first line in the provided HTML to achieve this functionality is:

```
<video width="360" height="270" controls>
```

Here's the comprehensive explanation:

* `controls` Attribute: The `controls` attribute is a boolean attribute. When present, it specifies that video controls should be displayed, allowing the user to control video playback, including pausing, playing, and seeking.

* HTML Structure:

* Original Line:

```
<video width="360" height="270">
```

* Revised Line:

```
<video width="360" height="270" controls>
```

* Usage Example:

```
<video width="360" height="270" controls>
<source src="video.mp4" type="video/mp4">
Your browser does not support the HTML5 video element.
</video>
```

In this example, adding the controls attribute provides the user with play, pause, and volume controls.

References:

- * MDN Web Docs on <video>
- * W3C HTML5 Specification on <video>

NEW QUESTION # 45

Given the following JavaScript code:

□ What happens when this code is executed?

- A. The object with the demo is changed to 6.
- B. The object with the id demo is changed to x.
- C. The object with the id innerHTML is changed to 6.
- D. The object with the id innerHTML is changed to x.

Answer: A

Explanation:

The provided JavaScript code sets a variable `x` to 6 and then assigns this value to the `innerHTML` of the HTML element with the id `demo`.

```
var x;
```

```
x = 6;
```

```
document.getElementById("demo").innerHTML = x;
```

Explanation:

* Variable Declaration: `var x;` declares the variable `x`.

* Variable Assignment: `x = 6;` assigns the value 6 to the variable `x`.

* DOM Manipulation: `document.getElementById("demo").innerHTML = x;` finds the element with id `demo` and sets its `innerHTML` to the value of `x`, which is 6.

Outcome:

* The content of the HTML element with the id `demo` will be changed to 6.

:

MDN Web Docs on `getElementById`

W3C JavaScript DOM Manipulation

NEW QUESTION # 46

Which method should a developer use to create a message that requests a user to select "OK" or "Cancel"?

- A. `confirm`
- B. `prompt`
- C. `write`
- D. `alert`

Answer: A

Explanation:

> "The `confirm()` method displays a dialog box with OK and Cancel buttons. It returns `true` if OK is selected and `false` otherwise."

>

> * `alert()` only shows a message

> * `prompt()` includes a text input field

> * `write()` outputs directly to the document

References:

* MDN Web Docs: `confirm()`

* ECMAScript Browser Dialogs

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