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WGU Web-Development-Applications Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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 (Q136-Q141):

NEW QUESTION # 136

Given the following markup:



Where does the image align in relation to the text?

- A. The top of The image aligns to the top of Hello World
- B. The bottom of the image aligns to the top of Held world.
- C. The bottom of the Image aligns to the bottom of Hello World
- D. The lop of the image aligns the bottom of Hello world.

Answer: C

Explanation:

The CSS property `vertical-align: baseline` aligns the baseline of the element with the baseline of its parent. For inline elements like images, the baseline alignment means that the bottom of the image aligns with the bottom of the text.

* CSS `vertical-align` Property:

* Baseline Alignment: Aligns the baseline of the element with the baseline of its parent.

* Example:

```
<p>Hello World</p>
```

* Analysis:

* The `` element with `vertical-align: baseline` will align its bottom with the bottom of the surrounding text "Hello World".

:

MDN Web Docs - `vertical-align`

W3C CSS Inline Layout Module Level 3

NEW QUESTION # 137

What is the purpose of cascading style sheets (CSSs)?

- A. Changing the content of a web page dynamically
- B. Structuring and describing web page content
- C. Providing functionality that was previously provided by plug-ins
- D. Setting rules to define how page content looks when rendered

Answer: D

Explanation:

Cascading Style Sheets (CSS) are used to control the presentation of web pages, including aspects such as layout, colors, fonts, and other visual styles. They are a cornerstone technology of the World Wide Web, along with HTML and JavaScript. Here's a detailed breakdown:

* **Purpose of CSS:** CSS is designed to enable the separation of document content (written in HTML or a similar markup language) from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting, and reduce complexity and repetition in the structural content.

* **Setting Visual Rules:** CSS allows developers to define rules that specify how different elements of a web page should be displayed. For example, CSS rules can change text color, font size, spacing between elements, and even the overall layout of the web page. These rules are applied by the browser to render the web page according to the defined styles.

* **Cascading Nature:** The term "cascading" in CSS refers to the process of combining multiple style sheets and resolving conflicts between different CSS rules. This allows developers to use different sources of style information, which can be combined in a hierarchical manner. For instance, a browser style sheet, an external style sheet, and inline styles can all contribute to the final rendering of a web page.

* **Benefits of CSS:**

* **Consistency:** By using CSS, developers can ensure a consistent look and feel across multiple web pages.

* **Maintainability:** CSS makes it easier to update the visual presentation of a web page without altering the HTML structure. This is particularly useful for maintaining large websites.

* **Reusability:** CSS rules can be reused across multiple pages, reducing redundancy and making it easier to implement changes globally.

* **Examples of CSS:**

```
css
Copy code
body {
background-color: lightblue;
}
h1 {
color: navy;
margin-left: 20px;
}
```

In this example, the body element is given a light blue background color, and the h1 element is styled with a navy color and a left margin of 20 pixels.

References:

- * MDN Web Docs on CSS
- * W3C CSS Specifications

NEW QUESTION # 138

Which code segment creates a slider field that accepts a numeric value ranging from 1 through 10?

- A. `<input type="number" name="cat-level" min="1" max="10">`
- B. `<input type="range" value="5" min="1" max="10">`
- C. `<input type="number" name="cat-level" max="10">`
- D. `<input type="range" value="5" min="1" max="10">`

Answer: D

Explanation:

To create a slider field that accepts a numeric value ranging from 1 through 10, the input element with `type="range"` should be used. The `min` and `max` attributes define the range of acceptable values.

* **HTML Input Type range:**

* **Purpose:** The `range` type is used for input fields that should contain a value from a specified range.

* **Attributes:**

* `type="range"`: Specifies that the input field should be a slider.

* `min="1"`: Sets the minimum acceptable value.

* `max="10"`: Sets the maximum acceptable value.

* Example:

* Given the HTML:

```
<input type="range" name="sat-level" min="1" max="10">
```

* Options Analysis:

* Option A:

```
<input type="number" name="sat-level" max="10">
```

* This creates a numeric input field, not a slider.

* Option B:

```
<input type="range" name="sat-level" min="1" max="10">
```

* This is the correct option that creates a slider field with the specified range.

* Option C:

```
<input type="number" name="sat-level" min="1" max="10">
```

* This creates a numeric input field, not a slider.

* Option D:

```
<input type="range" name="sat-level" max="10">
```

* This creates a slider but lacks the `min` attribute, so it doesn't fully meet the requirement.

:

MDN Web Docs - `<input type="range">`

W3Schools - HTML Input Range

By using the correct attributes, the slider field will allow users to select a value between 1 and 10.

NEW QUESTION # 139

Which markup ensures that the data entered are either a five-digit zip code or an empty string?

- A. `<input type="number" value="">`
- B. `<input pattern=/d(5)/>`
- C. `Input class =" (0-9) (5)">`
- D. `Input required min=""s" max=""s"`

Answer: B

Explanation:

The `pattern` attribute in the `<input>` element is used to define a regular expression that the input value must match for it to be valid. The `pattern\d{5}` ensures that the data entered is either a five-digit zip code or an empty string (if the `required` attribute is not used).

* Pattern Explanation:

* `\d{5}`: Matches exactly five digits.

* This ensures that only a five-digit number or an empty string (if not required) is valid.

* Usage Example:

```
<input type="text" pattern="\d{5}" placeholder="Enter a 5-digit zip code">
```

 This ensures that the input matches a five-digit zip code.

:

MDN Web Docs on `pattern`

Regular Expressions Documentation

NEW QUESTION # 140

Which property or method requires a minimum of two values to apply?

- A. It accepts pixel values only.
- B. It accepts Hex values only
- C. It requires a minimum of two values to apply.
- D. It requires a minimum of one value to apply

Answer: C

Explanation:

This question seems to be about a property or method that requires two values. Without additional context, the most common scenario that fits this description is CSS properties that define sizes or positions with two values. Examples include `background-position`, `margin`, `padding`, etc., where both horizontal and vertical values are needed.

References:

* MDN Web Docs on Background Position

