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WGU C777 - Practice Test A Web Development Applications PA and OA
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1. The terms "HTML family" and "Web development trifecta" are sometimes used to refer to which combination of Web technologies?
- A) HTML5, CSS3 and Javascript
 - B) HTML5, XML and CSS3
 - C) HTML5, JavaScript and Flash
 - D) HTML5, Flash and XML: HTML5, CSS3 and Javascript
2. Moishe wants to develop mobile apps using the technologies contained in the "HTML5 family." Which language in the family should Moishe use to create dynamic, interactive capabilities for his apps?
- A) JavaScript
 - B) HTML5
 - C) Cascading Style Sheets (CSS)
 - D) Document Object Model (DOM): JavaScript
3. Bella wants to simplify Web page creation so that she need only make on simple chan

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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">• 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 3	<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.
Topic 4	<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.

WGU Web Development Applications Sample Questions (Q128-Q133):

NEW QUESTION # 128

Which History API object is called when a browser window's document history changes?

- A. Window, open
- **B. Window, onpopstate**
- C. Window, name
- D. Window, location

Answer: B

Explanation:

The onpopstate event is triggered in the window object when the active history entry changes, such as when the user navigates to a different page using the back or forward buttons in the browser.

* History API and onpopstate:

* Event: window.onpopstate

* Description: This event is fired when the user navigates to a session history entry, i.e., when moving backwards or forwards in the browser history.

* Example:

```
window.onpopstate = function(event) {
  console.log("location: " + document.location + ", state: " + JSON.stringify(event.state));
};
```

* Other Options:

* A. Window, location: location is an object containing information about the current URL.

* C. Window, name: name is a property to set or get the name of a window.

* D. Window, open: open is a method to open a new browser window or tab.

* References:

* MDN Web Docs - window.onpopstate

* W3Schools - JavaScript History API

NEW QUESTION # 129

What is the process for JavaScript form validation?

- A. Form fields are validated as the user inputs data after form data is sent to the server.
- **B. Form fields are validated after the form is submitted but before form data is sent to the server**
- C. User input is sent to the server after the form is completed for validation.
- D. User input is sent to the server as fields are completed for validation.

Answer: B

Explanation:

JavaScript form validation typically occurs after the form is submitted but before the form data is sent to the server. This allows the client-side script to check the input data and prevent the form from being submitted if the data is invalid.

* Client-Side Validation:

* Before Form Submission: JavaScript validates the form fields after the user attempts to submit the form.

* Prevent Default Submission: If the validation fails, JavaScript can prevent the form from being submitted and display appropriate error messages.

* Usage Example:

```
document.getElementById("myForm").addEventListener("submit", function(event) { var isValid = true;
// Perform validation checks
if (!isValid) {
  event.preventDefault(); // Prevent form submission
  alert("Please correct the errors.");
}
});
```

This example prevents form submission if the validation fails.

References:

* MDN Web Docs on Form Validation

* W3C HTML Specification on Form Submission

NEW QUESTION # 130

Given the following CSS margin shorthand property:

```
css
p {
margin: 10px 20px 25px 30px;
}
...
```

How many pixels is the top margin?

- A. 25px
- B. 30px
- **C. 10px**
- D. 20px

Answer: C

Explanation:

> "When using the `margin` shorthand with four values:

>

- > * The first value is the top margin
- > * The second is the right margin
- > * The third is the bottom margin
- > * The fourth is the left margin"

So, `margin: 10px 20px 25px 30px;` translates to:

- * top: 10px
- * right: 20px
- * bottom: 25px
- * left: 30px

References:

- * MDN Web Docs: margin shorthand property
- * CSS Logical Properties specification

NEW QUESTION # 131

Given the following markup and no style sheet:



Which control does the input element render?

- A. Text
- B. Drop-down
- C. Button
- **D. Slider**

Answer: D

Explanation:

The type="range" attribute in an <input> element renders a slider control.

* HTML Input Type range:

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

* Example:

* Given the HTML:

```
<input id="range" name="range" type="range">
```

* Explanation:

* This will render as a slider that the user can move to select a value within a range.

* References:

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

* W3Schools - HTML Input Range

NEW QUESTION # 132

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

- A. Input required min="s" max="s"
- **B. <input pattern=/d{5}/>**
- C. Input class =" (0-9) (5)">
- D. <input type="number" value="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 onpattern
Regular Expressions Documentation

NEW QUESTION # 133

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