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## WGU C777 WEB DEVELOPMENT APPLICATIONS TEST WITH ANSWERS

HTML5, CSS, JavaScript - correct answer-The web development trifecta

main - correct answer-  
HTML5 tag defining the main body of a document. Cannot be the child of the header, nav, article, aside, or footer elements.

header and footer - correct answer-  
These elements can also be included in article, aside, nav, main, and section elements, not just on the page itself

source - correct answer-  
This element identifies the file(s) to use in a video or audio element

style guide - correct answer-A set of standards for the writing and/or design of documents

IE9 - correct answer-This version of IE is the first to support HTML5

Add them via JS, make them block via CSS - correct answer-  
What should you do to support HTML5 elements in pre-IE9 browsers.

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## WGU Web-Development-Applications Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>

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### **WGU Web Development Applications Sample Questions (Q44-Q49):**

#### **NEW QUESTION # 44**

Which 3D transform affects the distance between the z-plane and the user?

- A.
- B.
- C.
- D.

#### **Answer: B**

Explanation:

The perspective(n) method in CSS is used to affect the distance between the z-plane and the user, effectively changing the perspective depth of a 3D transformed element.

\* perspective(n) Method: The perspective function defines how far the element is from the user. It affects the appearance of the 3D transformed element, giving it a sense of depth.

\* Usage Example:

```
container {
  perspective: 1000px;
```

}

In this example, the perspective is set to 1000 pixels, which defines the distance between the z-plane and the user.

\* Properties:

\* n: This represents the perspective distance. The lower the value, the more pronounced the perspective effect.

References:

\* MDN Web Docs on perspective

\* W3C CSS Transforms Module Level 1

## NEW QUESTION # 45

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

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

### 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.

:

MDN Web Docs - window.onpopstate

W3Schools - JavaScript History API

## NEW QUESTION # 46

Which CSS positioning scheme should a developer use to ensure that an element remains in the same position when a user scrolls a page?

- A. Absolute
- B. Relative
- C. Static
- D. **Fixed**

### Answer: D

Explanation:

The position: fixed rule anchors an element relative to the browser window. This means the element remains in the same position regardless of scrolling.

"Fixed positioning removes the element from the normal document flow and positions it relative to the viewport. As the user scrolls, the element stays in its fixed position." References:

CSS Positioning Specification

MDN Web Docs - position: fixed

W3Schools - CSS Position Property

## NEW QUESTION # 47

Which code segment contains a conditional expression?

- A.
- B.
- C.
- D.

**Answer: B**

Explanation:

A conditional expression in JavaScript is an expression that evaluates to a boolean value and controls the execution flow based on its result. The conditional (ternary) operator `? :` is used for conditional expressions.

\* Example Analysis:

\* Option A:

```
var result = dataCount;
```

\* This is a simple assignment, not a conditional expression.

\* Option B:

```
var result = count++ > 10;
```

\* This is a comparison but not a complete conditional expression.

\* Option C:

```
var result = dataCount++ * 1000 == 3000000;
```

\* This is an arithmetic operation followed by a comparison but not a complete conditional expression.

\* Option D:

```
javascript
```

Copy code

```
var result = count >= 10 ? "Done" : getResult();
```

\* This is a conditional (ternary) expression. If count is greater than or equal to 10, result will be "Done", otherwise, it will call getResult().

\* References:

\* MDN Web Docs - Conditional (ternary) operator

\* W3Schools - JavaScript Conditions

## NEW QUESTION # 48

Given the following HTML code:

And given the following CSS selector:

Which elements will the CSS be applied to?

- A. All anchors (`a` element) and elements preceded by an unordered list (`ul` element)
- B. Any anchors (`a` element) followed by unordered lists (1:1 element)
- C. Any anchors (`a` element) preceded by unordered lists (`ul` element)  
All anchors (`a` element) and elements inside unordered lists (`ul` element)

**Answer: B**

Explanation:

Given the CSS selector `a, ul`, it targets all anchor (`<a>`) elements and all unordered list (`<ul>`) elements independently. This means the CSS rule will be applied to each `<a>` and `<ul>` element in the HTML document.

\* CSS Selector Analysis:

\* `a`: This part of the selector targets all `<a>` elements in the document.

\* `, :` The comma is a selector separator, meaning that each part of the selector list is applied independently.

\* `ul`: This part of the selector targets all `<ul>` elements in the document.

\* Example:

\* Given HTML:

```
<p>
<a href="http://example.com/link0">Link 0</a>
<a href="http://example.com/link1">Link 1</a>
```

```

>Link 1</a>
</p>
<ul>
<li>Hello</li>
</ul>
<p>
<a href="http://example.com/link2"
>Link 2</a>
<a href="https://example.com/link3">Link 3</a>
</p>
<b>Sample</b>
* Given CSS:
a, ul {
color: red;
}
* Affected Elements: All<a> and <ul> elements will have the color set to red.
:
MDN Web Docs - Comma combinator
W3C CSS Selectors Level 3

```

## NEW QUESTION # 49

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