

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Middle School Web System Architecture Quiz

How do developers balance structure, style, and logic? Use this formative assessment to evaluate student understanding of DOM interaction and front-end hierarchy.

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**1. A developer wants to ensure their website is accessible to screen readers by using semantic tags like <main>, <article>, and <section>. Which technology is being utilized for this structural hierarchy?**

- A. JavaScript Logic
- B. CSS Box Model
- C. HTML5 Markup
- D. HTTP Request Protocol

**2. When a user clicks a 'Dark Mode' toggle and the background color immediately shifts, the logic controlling that real-time change is handled by \_\_\_\_.**

- A. CSS Selectors
- B. JavaScript
- C. HTML Metadata
- D. Alt Text

**3. True or False: CSS media queries allow a single HTML file to change its layout automatically based on the screen size of the device (responsive design).**

- A. True
- B. False

**4. Analyze the following scenario: A website has text that is difficult to read because the font is too small and the colors clash. Which file should the developer edit to fix the visual contrast and typography?**

- A. index.html
- B. script.js
- C. styles.css
- D. server.py

**5. In the context of web development, HTML is often compared to a building's blueprint or skeleton, whereas \_\_\_\_ is compared to the interior design and paint.**

- A. XML
- B. JavaScript
- C. SQL
- D. CSS

**6. Which of these features would require a developer to write a JavaScript function rather than just using HTML and CSS?**

- A. Creating a bolded 3-column list of team members

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- B. Calculating the total cost of items in a shopping cart
- C. Changing the link color to purple after it is visited
- D. Adding a background image to the header section

**7. True or False: JavaScript is only used to change text and cannot be used to hide or show HTML elements.**

- A. True
- B. False

**8. If you view the source code of a web page and see text wrapped in <a> tags, what is the functional purpose of that specific structural element?**

- A. To define an animation sequence
- B. To create a hyperlink to another resource
- C. To apply a specific font-family to the text
- D. To store confidential user passwords

**9. To change the spacing inside an element's border, a developer uses the CSS property called \_\_\_\_.**

- A. Margin
- B. Padding
- C. Float
- D. Z-index

**10. True or False: Without CSS, a web page would still show its text and images, but they would likely appear in a plain, vertical list with no custom layout.**

- A. True
- B. False