ITD210 - Web Page Design II
WDE Certification Practice Test
2024-2025

The maximum possible score on this test is 100 points.
In the gradebook, it will be weighted 0 points.

Multiple Choice Questions: 4 points each

Each of the following questions has a single answer. Select the answer and mark it on the bubble sheet.

1. What is the purpose of the DOCTYPE declaration in HTML?

    (a) To inform the web browser about the version of HTML being used in the document.
    (b) To provide styling instructions for the webpage.
    (c) To specify the type and version of CSS being used in the document.
    (d) To validate the HTML syntax.

2. Why would you use a block-level element like `<div>` instead of an inline element like `<span>`?

    (a) To group and apply style in smaller portions of text within a paragraph
    (b) To create a structure for larger sections of the page like header, body, and footer.
    (c) To ensure that elements sit side by side in a single line
    (d) To design the page in a way that organizes content clearly while ensuring certain elements blend seamlessly into the surrounding.

3. What is wrong with this code?

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>title<title>
    <head>
    <body>
    <body>
<html>
```

    (a) Language can't be shortened to lang.
    (b) !DOCTYPE is spelt wrong.
    (c) There are no closing tags.
    (d) The body tags are too close to each other.

4. Which is the minimal encoding standard you could use if you needed to support only standard English language characters?

    (a) ASCII
    (b) Unicode
    (c) UTF-8
    (d) Binary

5. What is the correct syntax for an HTML comment?

    (a) `<- This is a comment →`
    (b) `<!  This is a comment !>`
    (c) `<!- This is a comment ->`
    (d) `<?  This is a comment ?>`

6. What is NOT a difference between the `<head>` and `<body>` HTML tags?

    (a) The `<head>` section is used to design the layout of a webpage, and the `<body>` section is used to choose the styles of a webpage.

    (b) The `<head>` section is information for the browser, and the `<body>` section is content for the users.

    (c) The `<body>` section is visible content on the page, and the `<head>` section is used to furnish additional content for the user.

    (d) The `<body>` section is used to decide what is displayed on the webpage, and the `<head>` section is used to decide how it is displayed on the webpage.

7. Which statement correctly describes the difference between the `<mark>`, `<em>`, and `<strong>` tags in HTML?

    (a) The `<mark>` tag is used for emphasizing text, while `<em>` and `<strong>` are used for highlighting text.

    (b) The `<em>` tag is used for bold text, `<strong>` is used for underlining, and `<mark>` is used for italics.

    (c) The `<mark>` tag highlights text, `<em>` emphasizes text with italics, and `<strong>` indicates strong importance with bold text.

    (d) The `<strong>` tag is only used for SEO purposes, while `<mark>` and `<em>` are purely decorative.

8. Which HTML tag represents the most important heading in a document?

    (a) `<h1>`

    (b) `<h6>`

    (c) `<title>`

    (d) `<head>`

9. Which of the following accurately describes the function of the `<p>` tag in HTML?

    (a) The `<p>` tag defines a paragraph, without adding any space above or below.

    (b) The `<p>` tag defines a paragraph, automatically adding a blank line above and below the enclosed text and taking up the full width of its container.

    (c) The `<p>` tag is an inline element that formats text without affecting its block-level structure.

    (d) The `<p>` tag is used to create a new line within a paragraph without adding any space above or below.

10. Which of the following statements accurately describes the use of the `<br>` and `<hr>` tags in HTML?

    (a) `<hr>` is used to create a line break in text, and `<br>` is for drawing a horizontal line.

    (b) Both tags require closing tags to function correctly in HTML documents.

    (c) Both `<br>` and `<hr>` tags are used for creating new paragraphs.

    (d) The `<br>` tag is used for adding a new line within a paragraph, while the `<hr>` tag is used to insert a visual horizontal line to separate content.

11. What is the correct way to include a citation source for a block quotation in HTML?

    (a) The source URL should be included inside the `<q>` tag for all quotations.

    (b) The `<cite>` tag should be used as a container for the entire quotation and its source URL.

    (c) The *cite* attribute should be used within the `<blockquote>` tag to specify the URL of the quotation's source.

    (d) Citation sources are typically not included in the HTML but rather in the accompanying CSS.

12. What would the following HTML code look like when rendered in a browser?

```
<pre>F   G      H
    J</pre>
```

   (a)   F G   H
          J
   (b)   FGHJ
   (c)   FGH
          J
   (d)   F G H J

13. What is the purpose of the following HTML code?

```
<ul>
    <li>Fruits
        <ol>
            <li>Apples</li>
            <li>Bananas</li>
        </ol>
    </li>
    <li>Vegetables</li>
</ul>
```

   (a)   This is not valid HTML
   (b)   To create a list of fruits and vegetables where are labeled with numbers.
   (c)   To create a nested list with "Fruits" and "Vegetables" as numbered items, and numbered sub-items under "Fruits."
   (d)   To create a nested list with "Fruits" and "Vegetables" as bulleted items, and numbered sub-items under "Fruits."

14. How can you merge cells in an HTML table to create larger cells that span multiple rows or columns?

   (a)   Using the `<combine>` tag to merge cells horizontally and `<merge>` tag to merge cells vertically
   (b)   Using the *colspan* attribute to merge cells horizontally and *rowspan* attribute to merge cells vertically
   (c)   Using the `<span>` tag to merge cells horizontally and vertically
   (d)   Using the *merge-col* attribute to merge cells horizontally and *merge-row* attribute to merge cells vertically

15. What does the `srcset` attribute in the `<img>` tag allow you to specify?

   (a)   The image's aspect ratio and orientation
   (b)   The image's file format and compression level
   (c)   Alternative sources for the image along with their sizes and resolutions
   (d)   The image's metadata such as author, date, and description

16. Examine the following HTML code:

```
<a href="/about-us">
    <img src="logo.png" alt="Website Logo">
</a>
```

What is the purpose of wrapping the `<img>` element with the `<a>` tag?

(a)   To make the image act as a clickable link to the specified target location.

(b)   To provide the location where the image can be downloaded from and rendered on a web page.

(c)   To define the image as the background for the hyperlink text.

(d)   To validate the image source URL using the link's `href` attribute.

17. Which set of elements and attributes ensures a video can be played across different browsers due to codec compatibility?

(a)   A `<video>` element with a `srcset` attribute for different video resolutions.

(b)   The combination of multiple `<source>` elements with different `type` attributes within a `<video>` element.

(c)   Multiple `<video>` elements, each with a different source file.

(d)   A single `<video src="#">` with an additional codec attribute.

18. What is the purpose of the `<map>` element in HTML?

(a)   To map image hotspots to webpage elements.

(b)   To display interactive geographical maps.

(c)   To designate interactive areas within an image.

(d)   To structure data in a visually organized format.

19. In HTML, the `<figure>` element is used to group self-contained media content like images or charts. Which element should be used inside `<figure>` to provide a description or label for that content?

(a)   `<figcaption>`

(b)   `<caption>`

(c)   `<legend>`

(d)   `<summary>`

20. How or why would you use an `<iframe>` in web development?

(a)   To create a navigational menu

(b)   To display external content

(c)   To style your website with CSS

(d)   To write a custom JavaScript function

21. What is the correct syntax for creating an image that links to an external webpage?

(a)   `<img href="https://random.com" src="image.png" alt="Image">`

(b)   `<a src="image.png" href="https://random.com">`

(c)   `<image href="https://random.com">https://random.com</image>`

(d)   `<a href="https://random.com"><img src="image.png" alt="Image"></a>`

22. What is the primary purpose of a favicon on a website?

    (a)   To act as a visual identifier in browser tabs and bookmarks.

    (b)   To increase the loading speed of the website.

    (c)   To replace the use of images within the website content.

    (d)   To serve as the primary logo for the website.

23. You are filling out a job application form on a company's website. One field asks for your years of experience and shows the number 10 by default. You can increase or decrease the number using Up and Down arrow buttons. Which HTML5 code was used to create this field?

    (a)   Experience: `<input type="range" min="0" max="40" pattern="10">`

    (b)   Experience: `<input type="number" name="experience" min="0" max="40" autofocus ="10">`

    (c)   Experience: `<input type="text" name="number" min="0" max="40" default="10">`

    (d)   Experience: `<input type="number" name="experience" min="0" max="40" value="10">`

24. What is a key difference between using the `GET` and `POST` methods when submitting an HTML form?

    (a)   The `GET` method sends data in the request body, while `POST` appends it to the URL.

    (b)   The `GET` method appends form data to the URL, while `POST` sends it in the request body.

    (c)   Both methods send data securely over an encrypted connection by default.

    (d)   The `POST` method limits the amount of data that can be sent in a form submission.

25. Which HTML element creates a container used to group together related form elements?

    (a)   `<form>`

    (b)   `<fieldset>`

    (c)   `<section>`

    (d)   `<fieldarea>`

26. What is the significance of the `type` attribute in an `<input>` element?

    (a)   It determines the type of encoding used when sending the input data.

    (b)   It specifies the CSS type and styles to be applied to the input field.

    (c)   It indicates the MIME type of the data to be submitted with the form.

    (d)   It defines the functionality and data validation rules for the input field.

27. What is the correct syntax for an option in a dropdown menu?

    (a)   `<value name="JavaScript">JavaScript</value>`

    (b)   `<select value="option" name="javascript">JavaScript</select>`

    (c)   `<choice value="option" name="JavaScript">JavaScript</choice>`

    (d)   `<option value="javascript">JavaScript</option>`

28. Given the following HTML and CSS code:

```
<html>
    <head>
        <style>
        p { color: red; font-size: 20px; }
        </style>
    </head>
    <body>
        <p style="color: blue;">First paragraph.</p>
        <p>Second paragraph</p>
    </body>
</html>
```

What will be the result when this code is rendered in a browser?

(a)   The first paragraph will be red, and the second will be blue.
(b)   Both paragraphs will be blue.
(c)   Both paragraphs will be red.
(d)   The first paragraph will be blue, and the second will be red.

29. Which of the following is the best way to style many elements the same way?

(a)   ID, using the # selector
(b)   Class, using the . selector
(c)   element, using the < selector
(d)   Both

30. What does the HEX color code #00FF00 represent?

(a)   Yellow
(b)   Red
(c)   Green
(d)   Blue

31. Which of the following best describes the difference between <div> and <span> in HTML?

(a)   Both <div> and <span> are used only for layout, and neither supports CSS styling.
(b)   Use <span> for layout structure and <div> for styling short text.
(c)   <div> is a block-level element used for layout and grouping sections, while <span> is an inline element used to style parts of text within a line.
(d)   <span> creates visual sections on the page, and <div> applies inline styles only.

32. Given the following CSS code, what will be the vertical space between two consecutive elements with the class `.element`?

```css
.element {
    margin-top: 20px;
    margin-bottom: 30px;
}
```

    (a)   10px

    (b)   20px

    (c)   30px

    (d)   50px

33. Which WCAG conformance level is recommended to cover a broad range of accessibility issues?

    (a)   Level A

    (b)   Level AA

    (c)   Level AAA

    (d)   Level A+

34. What is one primary reason for implementing ARIA roles, states, and properties in a web application?

    (a)   To accelerate page load times

    (b)   To enhance visual styling using CSS

    (c)   To automatically generate sitemaps for search engines

    (d)   To provide semantic context to assistive technologies to improve accessibility

35. What is the primary reason for avoiding deprecated tags like `<b>`, `<center>`, and `<font>` in modern HTML?

    (a)   They only work in older versions of browsers.

    (b)   It's best to use CSS for styling to keep the structure and presentation separate.

    (c)   They add unnecessary complexity to web design.

    (d)   They are reserved for future use in HTML.

36. Add a Schema.org email property correctly to the following snippet:

```html
<div itemscope itemtype="http://schema.org/Person">
    <p itemprop="name">Alice Wonderland</p>
</div>
```

    (a)   `<p class="schema-email">Email: alice@example.com</p>`

    (b)   `<p itemprop="contact">Email: <a href="mailto:alice@example.com">alice@example.com</a></p>`

    (c)   `<a href="mailto:alice@example.com" itemprop="email">alice@example.com</a>`

    (d)   `<p>Email: <span itemprop="email">alice@example.com</span></p>`

37. How can the Geolocation API contribute to improving user experience on location-based websites?

    (a)   By displaying trending topics in the area based on user-selected location.

    (b)   By automatically detecting and displaying the user's current location and providing relevant information such as weather updates, nearby points of interest, and local services.

    (c)   By automatically detecting the user's browsing history and providing real-time traffic updates.

    (d)   By suggesting nearby social events based on the user's location and preferences submitted through an HTML form.

38. Which of the following HTML elements offers precise control over individual pixels for graphics creation?

    (a)   `<img>`

    (b)   `<canvas>`

    (c)   `<svg>`

    (d)   `<graphics>`

39. Ensuring the validity of HTML code is crucial for:

    (a)   Facilitating the integration of third-party APIs.

    (b)   Activating experimental browser features.

    (c)   Enabling the use of proprietary software extensions.

    (d)   Guaranteeing compliance with web standards, enhancing cross-browser compatibility.

40. Which statement accurately describes the function of color contrast checkers in the context of web accessibility?

    (a)   They are used to select a color palette that matches the brand identity.

    (b)   They optimize the color spectrum for faster page rendering.

    (c)   They automate the process of designing for color-blind users by adjusting hues.

    (d)   They help determine if text-to-background color contrast ratios meet the minimum requirements for users with visual impairments.