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## **FrontEnd Mid BootCamp Assessment**

### **Instructions:**

- 1. Make a copy of this document.**
- 2. Answer all questions in the document.**
- 3. Once you've completed the document, upload your document with your answers in the section provided in the form.**

✔**Don't forget to check your answers before submission!**

### **Questions**

1. What does HTML stand for?  
**HyperText Markup Language**
2. What is the purpose of the <head> section in an HTML document?  
**The <head> section contains metadata and resources for the webpage. These are the <title>, <meta>, <link> and <style> elements.**
3. What is the difference between <div> and <span>?  
**<div> is a block-level element that groups larger sections of content taking up the full width available while <span> is an inline element that groups small portions of text within a line without affecting layout.**
4. What does the <!DOCTYPE html> declaration do?  
**It defines the document file is HTML file**
5. What are self-closing tags? Give two examples.  
**This are HTML tags that do not have a closing tag because they don't contain content. Examples <br> for line break, <hr> for horizontal line**
6. What is the function of the <meta> tag?  
**It provides metadata about the HTML document that helps the browser, search engines and other services interpret the page. It provides text encoding, makes the site responsive, improve search ranking and provide author details and keywords.**

7. How do you create a comment in HTML?

**<!-- this is a comment in html -->**

8. What is the difference between block-level and inline elements? Give examples.

**Block-level elements start on a new line and take up all the width available.**

**Examples: <p>, <section>**

**Inline elements stay within the same line and only take up as much width as necessary. Examples: <span>, <strong>**

9. What are semantic HTML elements? List three examples.

**This are HTML elements that clearly describe their meaning in a human and machine readable way.**

**Examples: <article>, <header>, <footer>**

10. Write the basic structure of an HTML5 document.

**<!DOCTYPE html>**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<title>My First HTML5 Page</title>**

**</head>**

**<body>**

**<header>**

**<h1>HTML basic structure</h1>**

**</header>**

**<p>This is a basic HTML5 document structure.</p>**

**<footer>**

**<p>2025 My Website. All rights reserved.</p>**

**</footer>**

**</body>**

**</html>**

11. How do you define a class in HTML? Provide an example.

**We use class attribute to define this example class="head"**

12. How do you define an ID in HTML? Provide an example.

**We use id attribute Example id="form"**

13. What is the main difference between a class and an ID?

**A class is used when we want to apply styles to multiple items while an id uniquely identify a single element.**

14. Can an HTML element have multiple classes? Provide an example.

**Yes it can have multiple classes by separating them with spaces in the class attribute. Example class = " background-color font-size light"**

15. Can multiple elements share the same ID? Why or why not?

**No, multiple elements cannot share the same id in HTML, each id must be unique within a document.**

16. How do you create a hyperlink in HTML?

**Using <a> tag Example: <a href="https://www.google.com">Click here</a>**

17. What is the purpose of the target="\_blank" attribute in an <a> tag?

**This is used to open link in a new page instead of replacing the current one.**

18. How do you create an email link in HTML?

**<a href="mailto:email@gmail.com">Send an Email</a>**

19. How do you link to a specific section within the same page?

**You add id to the target section then use anchor links to create the link.**

20. What is the rel="nofollow" attribute used for in links?

**Is used to tell search engines not to follow the link and not to pass any link authority to the linked page.**

21. How do you insert an image in HTML?

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22. What is the purpose of the alt attribute in an image tag?

**Provides alternative text for the image, when the image cannot be displayed.**

23. How can you set an image as a clickable link? Provide an example.

**You wrap the <img> with an <a tag>. Example**

**<a href="https://www.google.com">  </a>**

24. How do you specify the width and height of an image in HTML?

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25. What is the difference between using an image in <img> vs using CSS background-image?

**<img > is used as part of content while background-image in css is applied as background of an element.**

26. What HTML tag is used to create a form?

**<form></form>**

27. Name three types of form input fields.

**a) text**

**b)radio**

**c)checkbox**

28. What is the difference between method="GET" and method="POST" in a form?

**GET method is used to fetch data from a form while POST method is used to submit data to a form.**

29. How do you create a submit button in a form?

**<button type="submit">Submit</button>**

30. What does the <label> tag do in forms?

**Is used to define label for input elements.**

31. What are the three ways to apply CSS to an HTML document?

**i) Inline CSS**

**ii) Internal CSS**

**iii)External CSS**

32. How do you link an external CSS file to an HTML document?

**<link rel="stylesheet" href="styles.css" />**

33. What is the difference between inline, internal, and external CSS?

**i) Inline CSS – is added directly to the content**

**Example: <p style="color: blue; font-size: 18px;">paragraph.</p>**

**ii) Internal CSS – is created inside <style> tag in an html document**

**iii) External CSS – CSS file is created in a separate file and linked to html file**

34. How do you change the text color of all <h1> elements using CSS?

**Select the <h1> element and apply color to it**

**Example:**

```
h1{  
color: red;  
}
```

35. How do you center a div using CSS?

**You can use flexbox, grid or margin auto. Example using flexbox:**

```
.div-center{  
display: flex;  
justify-content: center;  
align-items: center;  
}
```

36. What is the difference between an ordered list and an unordered list?

**Ordered list displays items in a numerical or alphabetical form by default is used when the sequence of list items is important while unordered list displays items in a bullet form, used when order of items is not important.**

37. How do you create a numbered list in HTML?

```
<ol>  
<li>First item</li>  
<li>Second item</li></ol>
```

38. How do you create a table in HTML?

```
<table></table>
```

39. What is the purpose of the <th> tag in a table?

**It is a table header used to label the columns**

40. How can you merge two columns in an HTML table?

```
<td colspan="2">Merged Cell (spans 2 columns)</td>
```