**Conceptual Exercise - CSS Fundamentals**

**Question 1 ❓​**

Explain how CSS differs from HTML in the context of web development.

HTML is a markup language used to create the content and formatting of a webpage, while CSS is cascading style sheets used to add texture and flavor to HTML. This includes fonts, colors, shadows, etc.

**Question 2 ❓​**

List the methods of including CSS in an HTML document and briefly describe each.

CSS can be included in an HTML document using three methods. Inline style, Internal styles, and External styles. Inline style is when CSS is included directly in the HTML document by adding the Style attribute in individual HTML elements. Internal Style is used in the head of the HTML document by using the Style tag. External Style, the preferred method, is used by creating a separate CSS file which uses a Link tag in the HTML head to connect the two. This allows multiple documents to follow the same styling of the CSS file.

**Question 3 ❓​**

Describe the anatomy of a CSS rule.

A CSS rule consists of a Selector, followed by a { Declaration Block within the curley bracket. This includes the styles you’re applying. The styles are written as a property: Value and then ends with a ;}

**🔑​Question 4 ❓​**

When might you want to use RGBA instead of RGB?

You would want to use RGBA if you are trying to adjust the transparency of the RGB.

**Question 5 ❓​**

How do Hex color values differ from RGB?

Hex colors use a #followed by 6 characters that determine the color while RGB use numbers to determine the amount of red, green, and blue in a selected color

**Question 6 ❓​**

When might a developer prefer to use HSL over other color formats?

A developer may choose to use HSL when they want to have more control over the color selection. This works by allowing the developer to select the hue, saturation, and light of the color.

**Question 7 ❓​**

What are the primary text properties used in CSS to modify the appearance and layout of text?

Text-decoration, text-align, font-family, font-size, font-weight, and others.

**Question 8 ❓​**

In what scenarios might it be beneficial to use vh or vw as a unit for font size?

Using vh or vw allows the page to scale the font sized based on the window size and allows the font to maintain a relative size to one another. This is especially handy when accessing a web page from a mobile client.

**Question 9 ❓​**

Explain the difference between em and rem units.

Em is used to scale the font relative to the parent size, while rem scales the font to the root font size of the HTML.

**Question 10 ❓​**

If multiple font families are listed in the font-family property, how does the browser decide which one to display?

The browser should use the font listed first. If the font is unavailable, the browser will select each following font until it is able to display one.