Theory Question

Q1. What HTML and explain its role in web development.

Hyper Text Markup Language is a markup language used to create and structure web pages on the internet. HTML is a language that web browsers understand and is used to display text, images, audio, and video on the web. HTML is the basic building block for any website that we see on the internet with the use of different HTML e.g. <p> & <h>

Q2. Describe the box model in CSS and how it influences the layout of element on a webpage.

The CSS box model is a container that contains multiple properties including borders, margin, padding and the content itself and it is used to create the design and layout of a web page.

Q3. Explain the difference between inline and block level elements in HTML and provide example of each.

Block end elements ae elements that being on a new line and occupy the complete horizon space. it parent element and have the same height as the content e.g. <div>, <p> & <header>

Inline element are elements that don’t being from a new line and occupy space as required e.g., <a> which is anchor tag <button> & <img>

Q4. What is the purpose of CSS media queries? How are they used to implement responsive designs?

Media queries are a popular technique for delivering a tailored style sheet to different devices. To demonstrate a simple example, we can change the background colour for different devices:Media queries allow us to apply css styles depending on a device general type e.g., mobile or computer.

Q5. Describe the importance of semantic HTML elements and provide at least three examples of such elements.

semantic HTML elements are those that clearly describe their meaning in a human- and machine-readable way. Elements such as <header> , <footer> and <article> are all considered semantic because they accurately describe the purpose of the element and the type of content that is inside them.

<nav> contains and styles the main navigation bar, including mostly internal webpage.

<header>s found at the top of the webpage and typically contains the search bar, site logo, name, etc.

<article> is an element that contains full content, such as this blog post or other write-ups. This tag is written within the <body> of HTML files.