***Wd-html***

***Question 1: Define HTML. What is the purpose of HTML in web development?***

HTML (Hyper Text Markup Language) is the standard language used to create and structure web pages. It provides the fundamental framework for displaying text, images, links, and other multimedia content on the internet. Essentially, HTML acts as the blueprint for how a webpage is organized and presented to the user.

Purpose of HTML in web development is to provide the backbone and structure of a web page. It defines the layout and organization of content on a web page by using a ranked structure of elements. HTML tags allow developers to specify the type of content being displayed and how it should be presented.

***Question 2: Explain the basic structure of an HTML document. Identify the mandatory tags and their purposes.***

The basic structure of an HTML document consists of a specific arrangement of mandatory tags that define the content and metadata of a web page. Each component serves a distinct function essential for the correct display and interpretation of the document by browsers.

**<!DOCTYPE html>**

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

**<head>**

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

**<title> Page Title </title>**

**</head>**

**<body>**

**<!-- Visible page content goes here -->**

**</body>**

**</html>**

**<!DOCTYPE html>**

Declares the HTML version to the browser

**<html>…</html>**

Root element encompassing all HTML content

**<head>…</head>**

Contains metadata (not displayed directly)

**<title>…</title>**

Sets the page title (required inside <head>)

**<body>…</body>**

Contains all visible content displayed to the user

***Question 3: What is the difference between block-level elements and inline elements in HTML? Provide examples of each.***

**Block-level element**

In HTML block level element starts in a new line, takes on a full width and can contain other block elements as well as inline elements.

**Examples;**

<div>

<p>

 <h1>

 <ul>

 <table>

<br>

**Inline element**

While inline element doesn’t start on new line, takes as much with as content requires and cannot contain other block level elements, only other inline element in plain text.

**Examples;**

<span>

 <a>

<img>

<strong>

***Question 4: Discuss the role of semantic HTML. Why is it important for accessibility and SEO? Provide examples of semantic elements.***