**Module 5**

**Frontend – CSS and CSS3 CSS Selectors & Styling**

**Theory Assignment:**

**Q1**. Difference Between HTML & HTML5?

| **Feature** | **HTML** | **HTML5** |
| --- | --- | --- |
| Version | Older version (HTML4 and earlier). | Latest version of HTML. |
| Media Support | No built-in support for audio & video tags. | <audio> and <video> tags for embedding media easily. |
| Graphics | Used plugins like Flash for graphics. | Supports <canvas> and <svg> for drawing graphics. |
| Doctype | Long and complex <!DOCTYPE> declaration. | Simple <!DOCTYPE html> declaration. |
| APIs | No API support. | Supports APIs like Geolocation, Web Storage, etc. |
| Mobile Friendly | Not designed for mobile responsiveness. | Designed for mobile devices and responsive layouts. |
| Performance | Slower and less optimized for modern needs. | Faster and better performance for modern browsers. |

**New Features in HTML5**

<audio>, <video> tags for media.  
<canvas>, <svg> for graphics.  
 Local storage (no need for cookies).  
 Geolocation API (find user’s location).  
 Better form controls (date, email, range, etc.).

**Q2.** What are the additional tags used in HTML5?

**1. Semantic Structure Tags**

| **Tag** | **Purpose** |
| --- | --- |
| <header> | Defines a header section (logo, nav, etc.) |
| <footer> | Defines a footer section |
| <nav> | Defines navigation links |
| <article> | Defines independent content (blog post) |
| <section> | Defines sections within a page |
| <aside> | Defines sidebars or related content |
| <main> | Defines the main content area |
| <figure> | Groups images with captions |
| <figcaption> | Caption for <figure> |
| <mark> | Highlights text |
| <time> | Defines time or date |

**2. Media Tags**

| Tag | Purpose |
| --- | --- |
| <audio> | Embed audio content |
| <video> | Embed video content |
| <source> | Define multiple media sources |
| <track> | Add subtitles or captions to video/audio |

**3. Graphics & Interactive Tags**

| Tag | Purpose |
| --- | --- |
| <canvas> | Draw graphics on the fly (JS needed) |
| <svg> | Scalable Vector Graphics |
| <progress> | Shows progress of a task (like downloads) |
| <meter> | Displays a scalar value within a range |
| <details> | Creates collapsible content |
| <summary> | Defines visible heading for <details> |
| <output> | Displays calculation result |

**4 Form Tags**

| Tag | Purpose |
| --- | --- |
| <datalist> | Provides predefined input options |
| <keygen> | Generates a key-pair (deprecated now) |
| <output> | Shows calculation result |