**WebSite Designing -HTML 5**

**Question 1: Difference between HTML & HTML5**

| **Feature** | **HTML** | **HTML5** |
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| **Version** | Older versions like HTML 4.01 | Latest version of HTML |
| **Doctype Declaration** | Long and complex: <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"> | Simplified: <!DOCTYPE html> |
| **Multimedia Support** | Requires external plugins (e.g., Flash) for audio/video | Built-in support for <audio> and <video> tags |
| **New Semantic Elements** | Not available | Introduced tags like <header>, <footer>, <article>, <section>, etc. |
| **Form Enhancements** | Limited input types | New input types: date, email, url, range, etc. |
| **Graphics** | No native support for drawing | Supports <canvas> and SVG for drawing graphics |
| **Offline Storage** | Uses cookies | Includes Web Storage (localStorage and sessionStorage) |
| **Browser Compatibility** | Older browsers only | Designed for modern browsers with backward compatibility |

**Question 2: Additional Tags Used in HTML5**

HTML5 introduced several **new semantic and functional tags** to improve the structure and capabilities of web pages:

**Semantic Tags**

* <header> – Represents the header of a document or section.
* <footer> – Represents the footer.
* <nav> – Defines navigation links.
* <article> – Represents a self-contained piece of content.
* <section> – Defines a section in a document.
* <aside> – Content indirectly related to the main content.
* <main> – The dominant content of the <body>.

**Media Tags**

* <audio> – Embeds audio content.
* <video> – Embeds video content.
* <track> – Specifies text tracks for media (subtitles, captions).

**Graphics and Interaction**

* <canvas> – Draw graphics via scripting (usually JavaScript).
* <svg> – Scalable Vector Graphics (also supported in earlier HTML versions).

**Form Input Types**

(Not tags, but enhancements to forms)

* Input types like: email, date, time, url, range, search, color, etc.

**Other Tags**

* <figure> and <figcaption> – For self-contained content like images with captions.
* <mark> – Highlights text.
* <progress> – Shows progress bar.
* <meter> – Displays a scalar measurement.
* <details> and <summary> – For expandable/collapsible content.
* <dialog> – For dialog boxes or pop-ups.
* <time> – For time/date values.