Module (HTML5) – 3

1. **What are the new tags added in HTML5?**

**Ans.** The semantic elements added in HTML5 are:

* <article>
* <aside>
* <details>
* <footer>
* <header>
* <main>
* <audio>
* <video>

1. **How to embed audio and video in a webpage?**

**Ans.** Embedding audio and video in a web page can enhance user experience significantly. Here’s how you can do it using HTML5.

* Controls attribute adds play, pause, and volume controls.
* You can include multiple <source> elements for different audio formats

**Exa.**

**<audio>**

**<source src="path/to/your-audio-file.mp3" type="audio/mpeg">**

**<source src="path/to/your-audio-file.ogg" type="audio/ogg">**

**</audio>**

To embed video, use the <video> tag. Here’s an example:

**<video>**

**<source src="path/to/your-video-file.mp4" type="video/mp4">**

**<source src="path/to/your-video-file.webm" type="video/webm">**

**Your browser does not support the video tag.**

**</video>**

* Width and height attributes set dimensions of the video.
* The controls attribute provides playback controls.
* Similar to audio, you can include multiple formats for compatibility.

1. **Semantic element in HTML5?**

**Ans. 1.** <article>

**2.** <aside>

**3.** <details>

**4.** <footer>

**5.** <header>

**6.** <main>

**7.** <mark>

**8.** <nav>

**9.** <section>

1. **Canvas and SVG tags.**

**Ans.** **Canvas:**

* The <canvas> element is used to draw graphics, on the fly, via Javascript.
* The <canvas> element is only a container for graphics. You must use Javascript to actually draw the graphics.
* Canvas has several methods for drawing paths, boxes, circles, text, and adding images.
* Canvas is supported by all major browsers.

**Exa.** <canvas id=”mycanvas” width=”200” height=”100” style=”border:1px solid black;”></canvas>

**SVG:**

* SVG stands for Scalable Vector Graphics.
* SVG is used to define vector-based graphics for the web.
* SVG defines graphics in XML format.
* Each element and attribute in SVG files can be animated.
* SVG is a W3C recommendation.
* SVG integrates with other standards, such as CSS, DOM, XSL and Javascript.

**Exa.** <svg width=”100” height=”100”>

<circle cx=”50” cy=”50” r=”40” stroke=”green” stroke-width=”4” fill=”yellow” />

</svg>