**Module (HTML5) – 3**

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

* There are 5 new tags added in HTML5:-

1.<div>DIVISION TAG</div>

2.<header>HEADER TAG</header>

3.<nav>NAVBAR TAG</nav>

4.<selection>

<aside></aside>

<article></article>

</selection>

5.<footer></footer>

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

* **1.** **EMBED AUDIO:-** we use the <audio> tag. Before HTML5, audio cannot be added to web pages in the Internet Explorer era. To play audio, we used web plugins like Flash. After the release of HTML5, it is possible. This tag supports Chrome, Firefox, Safari, Opera, and Edge in three audio formats – MP3, WAV, OGG. Only Safari browser doesn’t support OGG audio format.

**Syntax:-**

<audio>

<source src="file\_name" type="audio\_file\_type">

</audio>

* **2. EMBED VIDEO:-** we use the <video> tag. It contains one or more video sources at a time using <source> tag. It supports MP4, WebM, and Ogg in all modern browsers. Only Ogg video format doesn’t support in Safari browser.

**Syntax:-**

<video><source src="file\_name" type="video\_file\_type">

</video>

**3.** **Semantic element in HTML5?**

* Many web sites contain HTML code like: <div id="nav"> <div class="header"> <div id="footer"> to indicate navigation, header, and footer.
* In HTML there are some semantic elements that can be used to define different parts of a web page:
* <article>
* <aside>
* <details>
* <figcaption>
* <figure>
* <footer>
* <header>
* <main>
* <mark>
* <nav>
* <section>
* <summary>
* <time>

**4. Canvas and SVG tags.**

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| **SVG** | **CANVAS** |
| Vector based (composed of shapes) | Raster based (composed of pixel) |
| SVG has better scalability. So it can be printed with high quality at any resolution. | Canvas has poor scalability. Hence it is not suitable for printing on higher resolution. |
| SVG gives better performance with smaller number of objects or larger surface. | Canvas gives better performance with smaller surface or larger number of objects. |
| SVG can be modified through script and CSS. | Canvas can be modified through script only. |
| Multiple graphical elements, which become the part of the page’s DOM tree. | Single element similar to <img> in behavior. Canvas diagram can be saved to PNG or JPG format. |
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