**MODULE: 3 (HTML 5)**

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

HTML5 introduced several new semantic elements to provide more descriptive structure to web documents. Some of the prominent additions include <header>, <footer>, <nav>, <article>, <section>, <aside>, <figure>, and <figcaption>. These tags help improve accessibility, SEO, and readability of web pages by clearly defining different parts of the content.

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

In HTML5, you can embed audio and video using the <audio> and <video> tags respectively. Simply specify the source of the media using the src attribute within the tags. For example:

<audio controls>

<source src="audio.mp3" type="audio/mp3">

Your browser does not support the audio element.

</audio>

<video controls>

<source src="video.mp4" type="video/mp4">

Your browser does not support the video element.

</video>

These tags support various attributes like autoplay, controls, loop, etc., for customization.

**3. Semantic element in HTML5?**

Semantic elements in HTML5 are tags that clearly define the structure and purpose of the content they enclose. Examples include <header>, <footer>, <nav>, <article>, <section>, <aside>, <figure>, and <figcaption>. Semantic elements improve accessibility and search engine optimization by providing meaningful context to both human users and web crawlers. They also enhance the readability and maintainability of the codebase by making it easier to understand the document's structure and hierarchy.

**4. Canvas and SVG tags**

<canvas> and <svg> are two HTML5 tags used for drawing graphics on web pages, but they differ in their approach.

<canvas> is a bitmap-based drawing surface where you use JavaScript to draw shapes, lines, and images dynamically. It's suitable for complex, dynamic graphics like games or interactive visualizations.

<svg>, on the other hand, stands for Scalable Vector Graphics. It's an XML-based language for describing vector graphics. SVG is resolution-independent and can be scaled without losing quality. It's ideal for static or simple graphics like logos, icons, or illustrations. You can embed SVG directly into HTML or use it as an external file.