HTML 5 Module-3

Q-1). What are the new tags added in HTML5?

ANS). There are some of the notable tags added in html-5:

Here it is :-

- <audio> is used to define sounds such as music and other audio clips.
 Currently there are three supported file format for HTML 5 audio tag.
- <video>-It is used to play video file in HTML.
- <header>: Defines the header of a document or a section.
- <footer>: Defines the footer of a document or a section.
- <nav>: Defines a set of navigation links.
- <section>: Defines a section in a document.
- <article>: Defines an independent piece of content that can be reused or syndicated.
- <main>: Defines the main content of a document.
- <figure>: Specifies self-contained content, such as images, diagrams, illustrations, etc.
- <figcaption>: Provides a caption for a <figure> element.
- <time>: Represents a specific period in time or a range of time.
- <progress>: Represents the progress of a task.
- <details>: Represents additional details that the user can view or hide.
- <summary>: Defines a visible heading for the <details> element.
- <mark>: Highlights text.
- <datalist>: Defines a list of pre-defined options for <input> elements.

Q-2). How to embed audio and video in a webpage?

ANS). Audio Tag- and Video tag:-

HTML <embed> tag is used to embed an external document in an HTML file which can be a third-party application, multimedia, plugin(interactive content), etc. This element is new in HTML5.

Audio Tag-HTML audio tag is used to define sounds such as music and other audio clips. Currently there are three supported file format for HTML 5 audio tag.

Example:-

```
<audio controls>
     <source src="audio_file.mp3" type="audio/mpeg">
     Your browser does not support the audio element.
     </audio>
```

- Video tag- HTML 5 supports <video> tag also. The HTML video tag is used for streaming video files such as a movie clip, song clip on the web page.
- > Currently, there are three video formats supported for HTML video tag:
- o mp4
- o webM
- o ogg
- Example:-Embedding Video using the <video> element:

Q-3). Semantic element in HTML5?

Ans).

- ➤ HTML5 provides more semantic elements which make easy understanding of the code.
- Hence Semantics defines the meaning of words and phrases, i.e Semantic elements = elements with a meaning. Semantic elements have a simple and clear meaning for both, the browser and the developer.

Sementic tag Example:-

```
sementic tags.html ×
C:\Users\MR. HARSHIL
PATEL\OneDrive\Desktop\WEB_DESIGNING\HTML_JANVIMAM\sementic tags.html
          <title>Document</title>
             header{
                 height: 100px;
                 width: 100%;
                background-color: ■rgb(157, 24, 29);
             div{
              height: 80px;
                 width: 100%;
                 background-color: ☐rgb(54, 26, 91);
             footer{
             height: 100%;
                width: 100%;
                 background-color: ☐rgb(21, 113, 27);
            <a href="">HOME</a>
              <a href="">ABOUT US</a>
            <a href="">NUMBER</a>
             <a href="">PICTURES</a>
       <header>
         <img src="../img/baby lion.jpg" alt="" height="25px">
          <input type="text" name="" id="" width="80%">
         Lorem ipsum dolor sit amet consectetur adipisicing elit. Quos architecto deserunt iusto ipsam consequunt
         ur ipsa delectus nemo, doloremque, libero beatae vero neque consectetur est repudiandae
     </html>
```

Q-4). Canvas and SVG tags.

Ans).HTML Canvas Tag:-

- The HTML canvas element provides HTML a bitmapped surface to work with. It is used to draw graphics on the web page.
- The HTML 5 <canvas> tag is used to draw graphics using scripting language like JavaScript.
- The <canvas> element is only a container for graphics.
- It is a low level, procedural model that updates a bitmap and does not have a built-in scene. There are several methods in canvas to draw paths, boxes, circles, text and add images.

Example:-

HTML SVG Tag:-

- The HTML SVG is an acronym which stands for Scalable Vector Graphics.
- HTML SVG is a modularized language which is used to describe graphics in XML.
- It describe two-dimensional vector and mixed vector/raster graphics in XMI.
- you can create and edit an SVG image with text editor, but generally drawing programs like inkspace are preferred to create it.
- The <svg> element specifies the root of a SVG fragment. You can animate every element and every attribute in SVG files.

Example:-