30-9-23 [Assignment - 4] [P.W S2715] _/_/_

a.1] list out the features of HTML 5?

=>(i) HTML 5 are additionof semantic tags which makes the life easier to find the hunt to the elements.

(2) Semantics :- HTML 5. has elements like <header>, <footer>, `nav`, `section`, and. `article`.

(3) Multimedia :- HTML 5 include native support for embedding audio and video content using <audio>/<video> elements, eliminating the need for third-party plugins like flash.

(4) Canvas :- The <canvas> elements allows for dynamic rendering of graphics, charts and animation using javascript, providing a powerful graphics API

(5) Scalable vector Graphics (SVG)
÷ HTML5 includes SVG, which includes and enables the creation of scalable and resolution-independent vector graphics directly in HTML document.

(6) offline web Applications :-
HTML5 introduced technology like Application cache and web storage API. (local storage and sessionstoage.

⑦ Other than HTML 5 provides web Workers, Geollocation, Drag and drop; form Enhancements, web storage, web sockets, Responsive web design, Improved

⑧ Accessibility, cross-browser compatibility, Audio and video API's, Dynamic 2D Graphics, web components.

Q.2] What are HTML Entities? list out 5 commonly used HTML entities.

→ HTML Entities are special codes and Sequences of characters used to represent reserved or problematic characters in HTML and XML documents. These characters are often reserved for specific purpose in HTML, such as angle brackets (" < " and " > ") that are used for Markup Tags and character like " & ". and " " which has special meanings in HTML.

five commonly used HTML Entities are:

ⓐ &
→ Represents the ampersand character (&).
Its used to ensure that the ampersand itself is displayed.

ⓑ <
Represent less than sign " < ".

ⓒ >
Represents greater than sign " > ".

(d) &quote:

Represents double quotation mark " ".

(e) '

Represents the single quotation mark " ' ".

Q.3 Define accessibility in context of web development. Discuss why its essential to create accessible ~~content and showcase at least three keys features of HTML5 with explanation:~~ website and How it benefits different user groups.

⇒ (1) Accessibility in web development refers to the practise of designing and developing websites and web application to ensure they can be used to understood by people with disability, providing equal access to Information and functionality.

(2) Creating accessible websites is essential because it promotes inclusivity and ensue that everyone is including people with disability can access and use all online content It not only adhere to legal requirements but also enhances the user experience for a broader audience, potentialy. Increasing reach, engagement and user satisfaction.

(3) Creating a website benefits different user groups. by:-

(a) Visually impaired:- providing screen reader compatbiliy

(b) Hearing impaired:- offering captions and transcript for

video benefits those with heading impairements.

(c) Motor disability
     keyboard navigations ensures users
with motor disability can interact.

(d) Cognitive Disabilities:
     clear and simple design aids users d with
     certain disablity

(e) Aging population
     Accessibility aids of aging users who
     have varying abilities.

[Q.4] List any 3 ways which helps us in improving the
list any accessibilty of HTML.
→

① Use Semantic Elements
     → Employ semantics like `<nav>`,
       `<header>` and `<button>`

② Att Text for Images
     → Always include descriptive alt text
in `<img>`,

③ Proper form label:-
     Associate form elements in their label.
using the for attribute in `<label>` element or by
wrapping input with `<label>` tags.