

**: Library Website: Design and Development (9231)**

**Level: BS-LIS**

**Semester: Autumn, 2024**

## **ASSIGNMENT No. 1**

*(Units 1–5)*

**Q.1 Describe how you can use Microsoft Word to create a basic web page layout. What features and tools within Microsoft Word can be utilized to simulate the structure of a webpage, and how can you ensure the layout is visually appealing and organized? (20 marks)**

Microsoft Word can be used to create a basic web page layout by utilizing its formatting and design tools to simulate the structure of a webpage. The key steps include:

**Page Setup:** Set the page orientation to landscape for a wider layout similar to a webpage.

**Tables for Structure:** Insert tables to organize different sections such as the header, navigation menu, main content, and footer.

**Headers and Footers:** Use the header for the website title and footer for copyright information.

**Text Formatting:** Utilize heading styles (H1, H2, H3) to create a hierarchical structure.

**Hyperlinks:** Add links using the "Insert Hyperlink" option to mimic website navigation.

**Images and Graphics:** Insert images and position them appropriately using "Wrap Text" options.

**Color and Themes:** Apply colors and themes to enhance visual appeal and ensure consistency.

By following these steps, Microsoft Word can effectively be used to draft a webpage layout.

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**Q.2 Explain the basic structure of an HTML document. Describe what a Document Type Definition (DTD) is in the context of HTML. Provide examples relevant to a library website. (20 marks)**

An HTML document consists of the following essential components:

`<!DOCTYPE html>` - Specifies the HTML version being used.

`<html>` - The root element containing all content.

`<head>` - Contains metadata, title, and links to stylesheets.

`<body>` - Holds all visible content.

Example:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Library Website</title>
```

```
</head>
```

```
<body>
```

```
<h1>Welcome to the Library</h1>
<p>Find books, resources, and events.</p>
</body>
</html>
```

## **Document Type Definition (DTD):**

A DTD defines the rules and structure of an HTML document. For example, in HTML5, the DTD is `<!DOCTYPE html>`.

For a library website, the structure may include:

```
<!DOCTYPE html>
<html>
<head>
<title>Library Catalog</title>
</head>
<body>
<h1>Library Catalog</h1>
<p>Search for books and articles.</p>
</body>
</html>
```

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**Q.3 Explain the purpose and role of the <head> section, file structure, and color in an HTML document. Identify and describe the key elements that can be included within the <head> section, such as <title>, <meta>, <link>, and <script>. (20 marks)**

The <head> section of an HTML document contains metadata and links to external resources. It does not display content on the webpage but plays a crucial role in defining styles, scripts, and SEO.

**Key Elements in <head>:**

<title>: Defines the page title shown in the browser tab.

<meta>: Provides metadata such as description and keywords for SEO.

<link>: Links external stylesheets.

<script>: Includes JavaScript files for interactivity.

Example:

```
<head>
<title>Library Homepage</title>
<meta charset="UTF-8">
<meta name="description" content="Library resources and
events">
<link rel="stylesheet" href="styles.css">
<script src="script.js"></script>
</head>
```

### **File Structure:**

index.html (Main page)

styles.css (Stylesheet)

script.js (JavaScript file)

**Color in Web Design:** Color enhances readability and aesthetics. CSS can define colors:

```
body {
background-color: #f4f4f4;
color: #333;
}
```

---

**Q.4 What are the different HTML tags used to structure and display text on a webpage? Explain the purpose of tags with examples. (20 marks)**

Common HTML tags for structuring text:

**Headings:** <h1> to <h6>

**Paragraphs:** <p>

**Bold & Italics:** <b>, <i>

**Lists:** <ul>, <ol>, <li>

**Links:** <a href="">

**Tables:** <table>, <tr>, <td>

Example:

```
<h1>Library Books</h1>
```

```
<p>Find your favorite books here.</p>
```

```
<ul>
```

```
<li>Fiction</li>
```

<li>Non-Fiction</li>

</ul>

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**Q.5 Describe the role of Cascading Style Sheets (CSS) in web design. How can CSS be used to change the appearance of text links on a webpage? (20 marks)**

CSS styles HTML elements to improve the webpage design.

**Benefits:**

Consistency across pages

Separation of content and design

Faster page loading

**Changing Text Links with CSS:**

```
a {  
color: blue;  
text-decoration: none;  
}
```



```
a:hover {  
color: red;  
}
```

---

## **ASSIGNMENT No. 2**

*(Units 6–9)*

**Q.1 How can lists be used to enhance navigation? Provide an example. (20 marks)**

Lists organize menu items for easy navigation.

```
<ul>  
<li><a href="home.html">Home</a></li>  
<li><a href="catalog.html">Catalog</a></li>  
<li><a href="events.html">Events</a></li>  
<li><a href="contact.html">Contact Us</a></li>  
</ul>
```

---

**Q.2 Key components of a library website. (20 marks)**

**Header:** Displays the site title.

**Navigation Bar:** Links to major sections.

**Main Content:** Displays books, events, and resources.

**Footer:** Includes contact details and copyright.

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**Q.3 Steps for launching a website. (20 marks)**

**Content Review**

**Testing Functionality**

**SEO Optimization**

**Cross-Browser Compatibility**

**Server Deployment**

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**Q.4 Library Website Launch Checklist. (20 marks)**

**Test all links**

**Ensure mobile responsiveness**

**Check SEO settings**

**Prepare social media promotion**

**Verify hosting and domain setup**

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**Q.5 Explain Web Page Navigation, Image Mapping, Marquees, and Transitions. (20 marks)**

**Web Page Navigation:** Enables users to move between pages.

**Image Mapping:** Allows clickable areas on images.

**Marquees:** Scrolls text across the screen.

**Transitions:** Smooth visual effects between states.

Example CSS transition:

```
div {  
transition: all 0.5s ease;  
}
```

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