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| **SESSION** | **FEB MARCH 2025** |
| **PROGRAM** | **MASTER OF BUSINESS ADMINISTRATION (MBA)** |
| **SEMESTER** | **IV** |
| **COURSE CODE & NAME** | **DISM404 JAVA AND WEB DESIGN** |
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**Assignment Set – 1**

**Q1. Write a Short note on the following.**

**i. Explain the World Wide Web and its components.**

**ii. Web Browser**

**iii. Search Engine 4+3+3**

**Ans 1.**

**i. Explain the World Wide Web and Its Components**

The World Wide Web (WWW), often simply called the Web, is a vast system of interconnected documents and resources, accessed via the Internet using web browsers. It was invented by Tim Berners-Lee in 1989 and has since transformed how people share and access information globally. The Web works on a client-server model, where a user's device (the client) sends requests to web servers that host websites, returning HTML pages or other resources. Core technologies of the Web include Hypertext Transfer Protocol (HTTP), which

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**Q2. Create a simple HTML document to design a basic webpage. The webpage must include:**

**Formatted text using various HTML tags**

**An image displayed on the page**

**A hyperlink to another webpage**

**Unordered List 2.5\*4**

**Ans 2.**

**Introduction to HTML Webpage Design**

Creating a basic webpage using HTML involves using various tags to structure and present content. HTML stands for Hypertext Markup Language and is used to build the skeleton of any webpage. Every HTML document starts with the <!DOCTYPE html> declaration, followed by the <html> tag that wraps all the content. Inside this, the <head> section includes metadata like the title, and the <body> section includes all visible content. HTML is the foundation of web design, enabling developers to create engaging and well-structured pages. Even a simple HTML file can include headings, paragraphs, images, links, and lists to create

**Q3. Discuss the role and significance of CSS (Cascading Style Sheets) in web design.**

**Then, perform the following:**

**Create a CSS style sheet that customizes text styles, colours, and element positioning on a sample HTML page.**

**Illustrate, with an example, how CSS contributes to building responsive and visually attractive layouts. 4+3+3**

**Ans 3.**

**CSS in Web Design**

CSS, or Cascading Style Sheets, is an essential component of web development used to control the look and feel of HTML content. While HTML provides the structure of a webpage, CSS defines how that structure is presented to users. It allows developers to separate content from design, making websites easier to manage, more attractive, and consistent in style. CSS ensures that a single style can be applied across multiple pages,

**Assignment Set – 2**

**Q4. Discuss the benefits and drawbacks of using JavaScript on a webpage. Create a simple webpage that uses JavaScript for form validation (e.g., checking if all fields are filled). Include examples of basic event handlers in your code. 5+5**

**Ans 4.**

**Benefits and Drawbacks of Using JavaScript on a Webpage**

**Benefits of Using JavaScript**

JavaScript is a dynamic programming language primarily used to add interactivity and functionality to web pages. One of the most significant advantages of JavaScript is that it runs directly in the user's browser without the need for server-side interaction. This makes web pages more responsive and enhances user experience by reducing the need for constant page reloads. JavaScript allows developers to build dynamic features such as image sliders, form

**Q5. Define the LAMP stack and explain its importance in web development. Describe installing and configuring the LAMP stack on a local machine. Also, illustrate how PhpMyAdmin is used for database management within LAMP. 4+3+3**

**Ans 5.**

**Definition of the LAMP Stack**

LAMP is an acronym representing a collection of open-source software used to create powerful, dynamic websites and web applications. It stands for Linux (operating system), Apache (web server), MySQL (database), and PHP (server-side scripting language). Each component of the LAMP stack is responsible for handling a specific part of the web development process. Linux serves as the foundation and operating system, Apache handles the web requests, MySQL manages data storage, and PHP is used to build interactive and

**Q6. Discuss the following topics related to Java:**

**Commonly used Java APIs**

**Definitions of JDK and JRE**

**Differences between JDK, JRE, and JVM**

**Detailed explanation of the thread life cycle in Java 2.5\*4**

**Ans 6.**

**Commonly Used Java APIs**

Java APIs are pre-written classes and interfaces bundled into libraries that developers can use to build robust applications. These APIs provide essential functionality such as input/output processing, networking, data structures, and GUI creation. Some widely used APIs include java.lang (basic classes), java.util (collections framework), java.io (file handling), and javax.swing (graphical user interfaces). These APIs simplify development by offering reusable code for common tasks, reducing the need to write low-level logic from scratch. The