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| **SESSION** | **MAY 2023** |
| **PROGRAM** | **MCA** |
| **SEMESTER** | **II** |
| **course CODE & NAME** | **DCA6203 – Web Technologies** |
| **CREDITS** | **4** |

**Assignment Set – 1**

**1. A. Define TCP and IP communication through suitable diagram?**

**Ans: The TCP** corresponds to the transport layer of OSI reference model, The TCP is known as a connection-oriented protocol, which means that a connection is established and maintained until such time as the message or messages to be exchanged by the application programs at each end have been

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**B. Why are Logical Character Tags used? Explain any five Logical Character tags with suitable example.**

**Ans: Logical character** tags, also known as logical mark-up or semantic mark-up, are used to provide meaning and structure to the content of a document. They add additional information to the text, allowing software and systems to understand and process the content in a more meaningful

**2. A. What is DHTML? What are the advantages of DHTML?**

**Ans: DHTML (Dynamic HTML)** is a combination of technologies—HTML (Hypertext Mark-up Language), CSS (Cascading Style Sheets), and JavaScript—that allows for the creation of dynamic and interactive web content.

**DHTML** enables developers to manipulate and modify various elements of a web page in real-time,

**B. What are the building blocks of an XML document? Explain with example.**

**Ans: The building blocks of an XML (eXtensible Mark-up Language) document are as follows:**

**Elements:** Elements are the fundamental units of an XML document. They consist of a start tag, content, and an end tag.

The start tag begins with a less-than symbol ("<"), followed by the element name, and ends with a greater-than

**3. A. Explain about XPointer in detail.**

**Ans: XPointer** is a component of the XML Linking Language (XLink) and XML Path Language (XPath) specifications. It provides a way to address specific parts or fragments of an XML document using a combination of element names, attribute values, and other location-based expressions. XPointer allows you to create references to specific portions of an XML document

**B. Explain the concept of XSLT?**

**Ans: XSLT** (Extensible Style sheet Language Transformations) is a powerful language used to transform XML documents into different formats, such as HTML, XHTML, XML, or plain text. It is a part of the XSL (Extensible Style sheet Language) family, which also includes XSL-FO (XSL

**Assignment Set – 2**

**4. A. How does AJAX work? Explain with example.**

**Ans: AJAX** (Asynchronous JavaScript and XML) is a technique used to build interactive web applications that can exchange data with a server asynchronously without requiring a full page reload. It enables seamless updates and dynamic content on web pages by making asynchronous requests to the server and updating the page content in real-time.

**The working**

**B. What are different looping statements in PHP? Explain.**

**Ans:** In PHP, there are several looping statements available to execute a block of code repeatedly based on certain conditions or for a specified number of times.

**The different looping**

**5. A. How can you load XML Data into an HTML Page? Explain with example.**

**Ans:** To load XML data into an HTML page, you can use JavaScript along with the XMLHttpRequest object or the newer Fetch API.

**Here's an example that demonstrates how to load XML data and display it in an HTML page:**

<!DOCTYPE ht

**B. Define ASP session object with properties and methods.**

**Ans:** In ASP (Active Server Pages), the Session object represents a user-specific session and allows you to store and retrieve data across multiple pages during a user's visit to a website. It provides a way to maintain state and store user-specific information. The Session object has several properties

**6. A. How can we add parameters and return values in PHP functions?**

**Ans:** In PHP, you can add parameters and return values to functions to make them more versatile and reusable.

**Here's how you can add parameters and return values in PHP functions:**

**Adding Parameters**

**B. How to establish MySQL connection and retrieve data using PHP Script? Explain with example. Consider database named “University DB” and table “Student”.**

**Ans: To establish a MySQL connection and retrieve data using a PHP script, you can follow these steps:**

**Install and configure the necessary software:**

**Install PHP:** If you don't have PHP installed, you can download it from the official PHP website and follow the installation instructions for your operating system.

**Install MySQL:**