Program: BSc(Comp05)   **Semester: VI**   **SET: A**
Program (Specific): (Computer Science)   **Course Type: DSEC-V**
Class: T.Y.BSc(Computer Science)   **Max.Marks: 35**
Name of the Course: Web Technologie using XML & Javascript.   **Time: 2Hr**
Course Code: 24-CS - 363
Paper: I

Instructions to the candidate:

1) *There are 4 sections in the question paper. Write each section on separate page.*
2) *All Sections are compulsory.*
3) *Figures to the right indicate full marks.*
4) *Draw a well labeled diagram wherever necessary.*

SECTION: A

Q1) Multiple Choice Questions   **[5×1=5]**

1) Identify the main function of isset() when handling form inputs.
   - a) Checks if a variable is empty
   - b) Determines if a variable has been declared
   - c) Validates email format
   - d) Prevents SQL injection

2) Justify the usage of header() in PHP for redirection.
   - a) It modifies the browser's document structure
   - b) It sets HTTP response headers, allowing redirection
   - c) It changes HTML content dynamically
   - d) It validates user inputs

3) Determine the role of session_start() in PHP session handling.
   - a) Initializes or resumes a session
   - b) Ends the session
   - c) Destroys a session variable
   - d) Sets cookie parameters

4) Determine the correct syntax for an XML declaration.
   - a) <!XML version="1.0" encoding="UTF-8">
   - b) <?xml version="1.0" encoding="UTF-8"?>
   - c) <?xml:version="1.0" encoding="UTF-8">
   - d) <?xml version='1.0'>

5) Identify the primary purpose of AJAX.
      a) Enables asynchronous communication
      b) Enhances database performance
      c) Reduces HTML file size
      d) Improves JavaScript execution speed

Q2) Attempt any four of following   **[4×1=4]**

1) Differentiate between GET and POST methods.
2) Name the symbol used for class selection in jQuery.
3) Identify the client-side method to store temporary user data.
4) Define the scope of the let keyword.
5) Name a JavaScript object used for AJAX requests.
6) State the purpose of HTTP response headers

SECTION: B
Q3) Attempt any four of the following   **[4×2=8]**
1) Differentiate between GET and POST methods in form submission.
2) Describe how to set a cookie in CodeIgniter.
3) Explain the role of XMLHttpRequest in AJAX.
4) Illustrate the function of the onmouseover event
5) Explain how jQuery simplifies DOM manipulation
6) Justify the use of SimpleXML over the DOM parser in PHP

SECTION: C
Q4) Attempt any four of the following   **[4×2=8]**
1) Explain the use of arrow functions in ES6
2) Differentiate between forEach and map in JavaScript.
3) Illustrate the use of try-catch blocks for error handling.
4) Explain the role of the $_SERVER superglobal array in PHP.
5) Characterize the structure of an XML document.
6) Summarize the key features of JavaScript.

SECTION: D
Q5 Attempt any two of the following in brief   **[2×5=10]**
1) Examine the role of a web server in handling client requests and responses.
2) Explain CodeIgniter MVC framework in detail.
3) Write a PHP script to process a form and store data in a MySQL database.
4) Develop a PHP script to handle errors using try-catch blocks.