USN | | | | | | | | | |

Sixth Semester B.E. Degree Examination, June/July 2025
Web Technology and its Applications

Time: 3 hrs.   Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1 a. Explain any five HTML elements with a sample HTML document.   **(10 Marks)**
   b. Illustrate any five CSS selectors with suitable HTML code.   **(10 Marks)**

OR

2 a. Illustrate CSS text styling with an HTML code.   **(10 Marks)**
   b. Write an HTML5 code to create a basic web page that includes the includes the following elements:
      i)   A header containing the main heading of the page.
      ii)   At least two levels of headings.
      iii) An ordered list and an unordered list.
      iv)   A figure that contains an image along with a suitable caption.
      v)   A footer section with a closing remark.   **(10 Marks)**

Module-2

3 a. What is normal flow in the contex of CSS? Explain in detail.   **(10 Marks)**
   b. Design an HTML form to collect user registration details including Name, Email, Password, Gender (using radio buttons), and Hobbies (using checkboxes). Include a submit button.   **(10 Marks)**

OR

4 a. Create an HTML table to display the following student details. Table should include proper headers, borders and aligned data for the table given in Fig.Q.4(a).   **(10 Marks)**

Roll number	Name	Branch	Marks 1	Marks 2	Marks 3
101	Alice	CSE	85	90	88
102	Bob	ECE	78	82	80
103	Charlie	ME	92	89	94

Fig.Q.4(a)

   b. What is a responsive design? Explain the key components that make the responsive design work.   **(10 Marks)**

Module-3

5 a. What is a software layer? Illustrate the idea of Javascript layers.   **(12 Marks)**
   b. Write a PHP function calculateSum( ) that takes two integer parameters a and b, and returns their sum. The main program should prompt the user to input two numbers, call the function calculateSum( ) and display the result.   **(08 Marks)**

OR

6   a.   Explain different ways of linking a Java Script to an HTML page.   **(10 Marks)**
    b.   Write a PHP program that demonstrates the use of conditional statements and looping constructs. The program should check if a number is even or odd and print the numbers from 1 up to that number.   **(10 Marks)**

Module-4

7   a.   Define superglobal variables in PHP and explain the commonly used superglobal arrays.
                                                                              (10 Marks)
    b.   Describe how a PHP script can define and use a class. Then, write a PHP program to create a class called Artist with a suitable constructor. All its data members should be accessible only inside class. Create two objects and display details.   **(10 Marks)**

OR

8   a.   How can runtime errors be handled in PHP? Explain the mechanisms with examples.
                                                                              (10 Marks)
    b.   Explain the two techniques provided in PHP for reading/writing files and also list comparative advantages and disadvantages.   **(10 Marks)**

Module-5

9   a.   What are cookies? Explain php mechanism for writing and reading cookies with example.
                                                                              (10 Marks)
    b.   Explain how XML is processed in javascript.   **(10 Marks)**

OR

10 a.   Define AJAX. Explain AJAX request by writing UML diagram.   **(10 Marks)**
    b.   What are the commonly used animations in jQuery? Explain with suitable example.
                                                                              (10 Marks)

* * * * *