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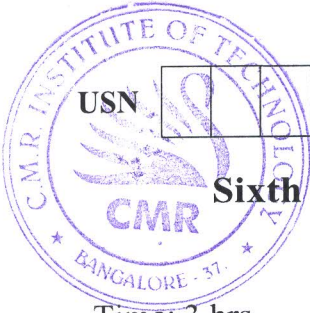
18CS63

Sixth Semester B.E. Degree Examination, Dec.2023/Jan.2024
Web Technology and Its Applications

Time: 3 hrs.   Max. Marks: 100

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

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-1

1   a.   What are the main aims of HTML5?   (04 Marks)
    b.   Explain the structure of HTML documents.   (08 Marks)
    c.   What is CSS? List and explain benefits of CSS.   (08 Marks)

OR

2   a.   Explain two types of URL referencing technique with suitable script in HTML5.   (08 Marks)
    b.   List the different selectors available in CSS. Explain.   (08 Marks)
    c.   Discuss ordered and unordered list with example.   (04 Marks)

Module-2

3   a.   Create a table that correctly uses the caption thead, tfoot and tbody elements. Briefly discuss the role of each of these elements.   (08 Marks)
    b.   What is responsive design? Explain the four key components that make a responsive design work.   (08 Marks)
    c.   Explain different form widgets created with <input> tags.   (04 Marks)

OR

4   a.   Explain different ways of positioning elements in CSS layout techniques.   (08 Marks)
    b.   List all the choice-controls with proper description.   (08 Marks)
    c.   Discuss the role of CSS preprocessor in the web development workflow. (04 Marks)

Module-3

5   a.   Write Java Script code that display text "WEB TECHNOLOGY" with increasing font size in the interval of 100 ms in blue color, when font size reaches 50 pt in teal colour and should stop.   (08 Marks)
    b.   Define software layer. Explain the various common software design layers in Java script with a neat diagram.   (08 Marks)
    c.   List and explain different form events.   (04 Marks)

OR

6   a.   Write PHP program to greet the user based on time.   (08 Marks)
    b.   Discuss the different ways the Javascript can be included in HTML page with example.   (08 Marks)
    c.   Explain web server's responsibilities.   (04 Marks)

Module-4

7   a.   What are the superglobal arrays in PHP? What function is used to determine if a value was sent via query string?   (10 Marks)
    b.   Explain the different error handling methods with suitable code segments.   (10 Marks)

OR

8 a. Write PHP program to create a class employee with the following specifications:
       Data members : Name, ID, Payment
       Member functions : Read (getters) and Write (setters)
       Use the above specification to read and print the information of 10 students. **(10 Marks)**
   b. Explain _construct( ) and _destruct( ) with example. **(10 Marks)**

Module-5

9 a. What is session state? How does session state works with suitable example. **(08 Marks)**
   b. Explain different types of caching need to improve performance of web application. **(08 Marks)**
   c. What does $( ) shorthand stand for in jQuery? **(04 Marks)**

OR

10 a. Define AJAX. Explain AJAX request by writing UML diagram. **(08 Marks)**
    b. What are the commonly used animations in jQuery? Explain with suitable example. **(08 Marks)**
    c. Write a jQuery to get all the <p> that contain the word "Hello". **(04 Marks)**

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