B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2025

Seventh Semester

Artificial Intelligence and Data Science

(Common to Electronics and Communication Engineering)

20ITOE903 - WEB DESIGN

Regulations - 2020

Duration: 3 Hours   Max. Marks: 100

PART - A (MCQ) (10 × 1 = 10 Marks)
Answer ALL Questions

		Marks	K – Level	CO

1. In which type of scripting, the source code is visible to the users, and they can access it using browser developer tools? — 1, K1, CO1
   (a) Client-side scripting   (b) Server-side scripting
   (c) User-end scripting   (d) Front-end scripting

2. jQuery is primarily used for: — 1, K1, CO1
   (a) Writing server-side code   (b) Simplifying JavaScript DOM manipulation
   (c) Creating databases   (d) Compiling HTML files

3. In CSS, "color:red" can be called as _____. — 1, K1, CO2
   (a) declaration   (b) value   (c) rule   (d) selector

4. The `for` attribute of a `<label>` tag should match the: — 1, K1, CO2
   (a) Form ID   (b) Input field's `name` attribute
   (c) Input field's `id` attribute   (d) Button label

5. date = Date.getMonth() returns _____. — 1, K1, CO3
   (a) returns any number from 0 to 6   (b) returns any number from 0 to 11
   (c) returns undefined   (d) returns -1

6. In servlets, which method is executed only once when the servlet is first loaded? — 1, K1, CO3
   (a) doGet()   (b) doPost()   (c) init()   (d) service()

7. _____ XSL element is used to loop through nodes. — 1, K1, CO4
   (a) xsl:loop   (b) xsl:for-each   (c) xsl:iterate   (d) xsl:repeat

8. In DHTML, which one is used to repeatedly call a function after a fixed interval? — 1, K1, CO4
   (a) setInterval()   (b) setTimeout()   (c) loop()   (d) callFunction()

9. The default directory for web content in Apache is usually: — 1, K1, CO5
   (a) /var/www/html   (b) /usr/local/bin   (c) /etc/apache2/conf   (d) /home/apache

10. The core feature of DHTML is: — 1, K1, CO6
    (a) Changing styles dynamically   (b) Creating new databases
    (c) Uploading files   (d) Sending emails

PART - B (12 × 2 = 24 Marks)
Answer ALL Questions

	Marks	K – Level	CO
11. State the difference between WWW and W3C.	2	K2	CO1
12. Illustrate the functions of a Web Server.	2	K1	CO1
13. How will you change the color of background or text in HTML?	2	K2	CO2
14. What are the rules involved in CSS?	2	K1	CO2
15. Mention the differences between GET and POST.	2	K2	CO3
16. Write a simple program in JavaScript to validate the email-id.	2	K2	CO3
17. How to create a Event in Javascript?	2	K1	CO4
18. Define the purpose of Namespace.	2	K1	CO4
19. What is the advantage of using Perl for web scripting?	2	K1	CO5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **13945**

20.	Compare client-side scripting and server-side scripting.	*2*	*K2*	*CO5*
21.	Define event handling in DHTML.	*2*	*K1*	*CO6*
22.	Differentiate between static and dynamic web pages.	*2*	*K2*	*CO6*

PART - C (6 × 11 = 66 Marks)
Answer ALL Questions

23.	a)	Explain in detail HTML5 Canvas with examples.	*11*	*K2*	*CO1*
		OR			
	b)	Illustrate the concept of Attribute Groups in XHTML. Give examples of global and specific attributes.	*11*	*K2*	*CO1*
24.	a)	Develop an interactive web page for online ticket reservation using HTML form elements.	*11*	*K3*	*CO2*
		OR			
	b)	Create a web layout using frames and CSS that simulates a small website with a navigation bar, content area, and footer.	*11*	*K3*	*CO2*
25.	a)	Create a JavaScript program to stimulate a simple calculator that performs arithmetic operations.	*11*	*K3*	*CO3*
		OR			
	b)	Develop a servlet that handles HTTP POST requests and GET requests.	*11*	*K3*	*CO3*
26.	a)	Develop a DHTML application where a button changes the background color of a webpage dynamically when clicked. Explain how HTML, CSS, and JavaScript work together in your solution.	*11*	*K3*	*CO4*
		OR			
	b)	Construct XSLT code to display employee details in a Table form which is stored in XML.	*11*	*K3*	*CO4*
27.	a)	Explain Web server system Architecture.	*11*	*K2*	*CO5*
		OR			
	b)	Describe about Internet Information Services (IIS) and Features.	*11*	*K2*	*CO5*
28.	a)	Apply DHTML scripting to display the current date and time on a webpage that updates automatically every second.	*11*	*K3*	*CO6*
		OR			
	b)	Develop a DHTML application that allows the user to navigate between multiple sections of a page (Home, About, Contact) without reloading the entire page. Describe the dynamic update process using JavaScript and CSS.	*11*	*K3*	*CO6*