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VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN
[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]
Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.

Question Paper Code: 50039

B.E. / B.Tech. DEGREE END-SEMESTER EXAMINATIONS – JAN. 2026

Fourth Semester

Computer Science and Engineering

U23CS409 – WEB TECHNOLOGY

(Regulation 2023)

Time: Three Hours

Maximum: 100 Marks

Answer ALL the questions

Knowledge Levels (KL)	K1 – Remembering	K3 – Applying	K5 - Evaluating
	K2 – Understanding	K4 – Analyzing	K6 – Creating

PART – A

(10 x 2 = 20 Marks)

Q.No.	Questions	Marks	KL	CO
1.	Narrate the functions of a Web Server.	2	K2	CO1
2.	Assess the syntax to display the following statement “I am learning Web Programming”.	2	K2	CO1
3.	Write the process of centring an element horizontally in CSS.	2	K1	CO2
4.	Compare and contrast inline style and an embedded style sheet.	2	K2	CO2
5.	Write the JavaScript to print “Good Day” using IF-ELSE condition.	2	K2	CO3
6.	State the usage of DOM style property.	2	K1	CO3
7.	List out different types of operators in PHP.	2	K1	CO4
8.	Compare Session and Cookies in server side scripting.	2	K2	CO4
9.	Classify the key modules in Node.js.	2	K2	CO5
10.	Outline the procedure to use MongoDB with an Express.js application.	2	K2	CO5

PART – B

(5 x 13 = 65 Marks)

Q.No.	Questions	Marks	KL	CO
11.	a) Design a HTML document to collect feedback from participants after attending a technical workshop.	13	K3	CO1
	(OR)			
	b) Determine the significance of XHTML with the help of a real time application. Write necessary code snippets.	13	K2	CO1
12.	a) Describe the Bootstrap grid system and how it facilitates layout design. Discuss the use of container classes, columns, and responsive breakpoints in creating flexible web layouts.	13	K4	CO2
	(OR)			
	b) Create a basic webpage for an online shop using HTML and CSS. The page should include the following sections: a header with the shop name, a product display section with at least three product items, each with a name, image, and price and a footer with contact information. Style the page using CSS, ensuring the products are displayed in a clean grid layout, with a background color, text styling, and border around each product item. Explain how you structured the HTML for the products and applied CSS to achieve a visually appealing design.	13	K4	CO2
13.	a) Explain the java script array handling and array methods.	13	K2	CO3
	(OR)			
	b) Examine in detail DOM event handling. Also explain with an example of creating a context menu.	13	K2	CO3
14.	a) Narrate file handling and file uploading in PHP with an example.	13	K2	CO4
	(OR)			
	b) Explain the steps to retrieve data from a MySQL database using PHP. Provide a complete script.	13	K2	CO4
15.	a) Investigate how database queries affect Node.js performance in MongoDB and MySQL. Justify.	13	K2	CO5
	(OR)			
	b) Illustrate how MongoDB stores data compared to traditional SQL databases with examples.	13	K2	CO5

PART – C

(1 x 15 = 15 Marks)

Q.No.	Questions	Marks	KL	CO
16. a)	Design a basic airport ticket booking page using HTML and CSS. The page should include the following sections: a header with the title 'Airport Ticket Booking,' a form for booking a flight with fields for passenger name, departure city, destination city, flight date, and seat preference. Include a 'Book Ticket' button. Style the page using CSS, ensuring that the form is properly aligned, the text is easy to read, and the design is visually appealing. Explain how you structured the HTML for the form and applied CSS to style the page.	15	K6	CO2
(OR)				
b)	A startup is developing a social media app using MongoDB. The app allows users to post updates, comment, and like posts. Discuss the steps to structure the relationship between posts and comments. Would you embed comments inside the post document or store them separately? Justify your choice with proper reasoning.	15	K3	CO5