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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: 130007

B.E. / B.Tech. DEGREE END-SEMESTER EXAMINATIONS – NOV. / DEC. 2025

Fifth Semester

Computer Science and Technology
U23CT512 – WEB PROGRAMMING
(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.	Describe are the core components of an HTTP response.	2	K2	CO1
2.	What is an ISP?	2	K1	CO1
3.	Does using semantic HTML improve accessibility for users?	2	K2	CO2
4.	What are CSS selectors? Give examples of common selectors.	2	K2	CO2
5.	State the concept of the 'this' keyword in JavaScript.	2	K2	CO3
6.	Define XML namespace.	2	K1	CO3
7.	What is the use of \$ symbol in PHP?	2	K2	CO4
8.	Define Server-Side Scripting.	2	K2	CO4
9.	When can we use AJAX?	2	K2	CO5
10.	What is the difference between XML HTTP Request and AJAX ?	2	K2	CO5

PART – B

(5 x 13 = 65 Marks)

Q.No.	Questions	Marks	KL	CO
11. a)	What are some common HTTP response headers and their purposes? What are the different categories of HTTP status codes and what do they indicate?	13	K1	CO1

	(OR)			
	b) Explain what is a dynamic web page, and how does it differ from a static web page? What is event-driven programming in the context of JavaScript, and why is it important for dynamic web pages?	13	K3	CO1
12.	a) How do semantic HTML tags differ from non-semantic tags? Give examples of each. Explain the purpose and usage of the <section>, <article>, <aside>, and <nav> elements in HTML5.	13	K3	CO2
	(OR)			
	b) What is the purpose of the <table>, <tr>, <td>, <th>, and <caption> elements? How are they used to organize tabular data? What are empty or self-closing HTML elements? Give three examples and explain their use.	13	K3	CO2
13.	a) Explain different types of arrays in JavaScript each with an example. What is regular expression in JavaScript? Describe the methods that use regular expressions in JavaScript.	13	K2	CO3
	(OR)			
	b) Explain how to display an XML document of a given type using XSL with an example. Explain the approaches for parsing XML document.	13	K3	CO3
14.	a) Define sorting. Explain are various sorting functions available in PHP using examples.	13	K1	CO4
	(OR)			
	b) How to create a connection between PHP and MySQL? What are the various types of inheritance supported in PHP?	13	K4	CO4
15.	a) Explain the working of AJAX in detail, including its main components and the role of XMLHttpRequest. How does AJAX improve the user experience in web applications compared to traditional synchronous web requests?	13	K2	CO5
	(OR)			
	b) Describe how you would implement error handling, security measures, and performance optimizations in an AJAX-based web application. Include examples of common AJAX security vulnerabilities and how to mitigate them.	13	K2	CO5

PART – C

(1 x 15 = 15 Marks)

Q.No.	Questions	Marks	KL	CO
16. a)	i. Discuss the design and development process of building an e-commerce web application for the healthcare sector using the LAMP stack.	5	K4	CO4
	ii. Explain how each component of the LAMP architecture supports the application's functionality.	5		
	iii. Describe key features that such a healthcare e-commerce site should have, including product management, secure user authentication, shopping cart, payment gateway integration, and order tracking. Highlight the importance of data security with healthcare regulations in the application design.	5		
(OR)				
b)	i. Design and explain the architecture of a RESTful API for an e-commerce application for healthcare.	5	K2	CO5
	ii. Describe how you would structure the API endpoints to handle key business entities such as products, customers, orders, and payments.	5		
	iii. Discuss best practices in URI naming conventions, the use of HTTP methods (GET, POST, PUT, DELETE), and how resource representations (e.g., JSON) are managed.	5		