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End Semester Examination 2024

Name of the Course: B.TECH(CSE)

Semester: _VI

Name of the Paper: Full Stack Web Development

Paper Code: TCS:693

Time: 3 Hour's

Maximum Marks: 100

Note:

- (i) All Questions are compulsory.
- (ii) Answer any two sub questions among a,b and c in each main question.
- (iii) Total marks in each main question are twenty.
- (iv) Each question carries 10 marks.

(10 X2 = 20 Marks)		Specify COs for Q1
Q1		
(a)	What are the key features introduced in HTML5 compared to previous versions Explain the purpose and usage of semantic HTML5 elements such as <header>, <footer>, <nav>, and <article> of HTML?	
(b)	Discuss the CSS box model and its components, including content, padding, border, and margin. How does the box model influence the layout of elements on a web page?	
(c)	Explain the concept of CSS selectors and provide examples of different types of selectors, including element selectors, class selectors, and ID selectors.	
(10 X2 = 20 Marks)		Specify COs for Q2
Q2		
(a)	Explain the concept of variables in JavaScript. What are the different variable scopes, and how are variables declared?	
(b)	Write a Javascript program to display the current time and date in the following format. Date: Date/Month/Year, Time: hour/minute/second	
(c)	Describe the purpose of jQuery effects and how they can enhance user interaction on web pages.	
(10 X2 = 20 Marks)		Specify COs for Q3
Q3		
(a)	Explain the concept of sessions in PHP. How are sessions maintained, and how can session variables be accessed?	
(b)	Explain the concept of error handling in PHP. How can errors and exceptions be handled effectively in PHP code?	
(c)	Create a PHP function that takes an array of numbers as input and returns the sum of all the numbers in the array.	
(10 X2 = 20 Marks)		Specify COs for Q4
Q4		
(a)	Explain what React is and its core principles.	
(b)	What are the differences between React class components and functional components?	
(c)	Describe the purpose of JSX in React. How does JSX help in writing React components?	
(10 X2 = 20 Marks)		Specify COs for Q5
Q5		
(a)	Define the World Wide Web (WWW) and explain its role in modern internet usage. Discuss the key components of the World Wide Web architecture, including web browsers, web servers, and URLs.	
(b)	Define JSON and explain its purpose in web development. Describe the syntax of JSON and provide examples of JSON data structures.	
(c)	What is WordPress, and how does it differ from other content management systems (CMS)?	