U.S.N.										

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

June 2025 Semester End Main Examinations

Programme: B.E. **Semester: VI**
Branch: Institutional Elective **Duration: 3 hrs.**
Course Code: 23IS6OEWTS **Max Marks: 100**
Course: Web Technologies

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

		UNIT - I	CO	PO	Marks
1	a)	Write an XHTML document to describe an unordered list of at least four states. Each element of the list must have a nested list of at least three cities in the state.	CO1	PO1	8
	b)	Explain different levels of style sheets and give its style specification formats with suitable examples.	CO1	PO1	8
	c)	Write a suitable HTML code to get the following output Project submission deadline is on ~~21st May 2025~~ 21st May 2025	CO1	PO2	4
		OR			
2	a)	Create an XHTML document that has form with the following controls: (i) A text box to collect Student name. (ii) A text box to collect password. (iii) Three check boxes for collecting course. (iv) A select tag that contains various branches. A collection of three radio buttons for semester.	CO1	PO2	8
	b)	With suitable illustrations, explain the box model.	CO1	PO2	6
	c)	Demonstrate the font properties with a suitable example.	CO1	PO2	6
		UNIT - II			
3	a)	Create an XHTML document using javascript that checks the passwords, include two passwords as input elements along with reset and submit buttons. Implement the functions to check: i)Both entered passwords are same ii)Both entered passwords are different	CO2	PO1	10
	b)	Write a JavaScript program to print the first 20 Fibonacci numbers.	CO3	PO1	5

		c)	Explain the following dialog boxes in JavaScript: alert, prompt and confirmation.	*CO2*	*PO1*	**5**
			OR			
	4	a)	Demonstrate different ways to access HTML elements in JavaScript DOM.	*CO3*	*PO2*	**8**
		b)	Illustrate event handling in JavaScript.	*CO2*	*PO2*	**6**
		c)	Explain Pattern Matching Using Regular Expressions in JavaScript.	*CO2*	*PO1*	**6**
			UNIT - III			
	5	a)	Design a XML and DTD document to store information about a cricket player. Each player's information must include Name, country, Year of Joining, performance (No. of runs scored, No. of wickets taken and No. of matched played). Each player must be identified with player id.	*CO3*	*PO2*	**10**
		b)	Explain the Absolute positioning and Relative positioning of elements in JavaScript. Illustrate the same with suitable examples	*CO2*	*PO1*	**10**
			OR			
	6	a)	Define DTD? Describe the approach to declare elements, attributes and entities.	*CO1*	*PO1*	**10**
		b)	Create XML document to store at-least two student information for USN, Name (First Name, Last Name), Email-ID and Address.	*CO2*	*PO1*	**10**
			UNIT - IV			
	7	a)	Demonstrate the following w.r.t NodeJS: i) Opening and Closing files ii) Reading and Writing files	*CO1*	*PO1*	**10**
		b)	Develop a Node JS program that implements a series of update callbacks at various intervals.	*CO3*	*PO2*	**10**
			OR			
	8	a)	Illustrate the process of deleting a file and truncating files in NodeJS.	*CO2*	*PO1*	**10**
		b)	Write a Node.JS program that demonstrates how setTimeout, setImmediate, and process.nextTick add tasks to the event queue. Explain the order in which they are executed.	*CO3*	*PO2*	**10**
			UNIT - V			
	9	a)	Describe MongoDB data types with suitable examples.	*CO1*	*PO1*	**10**
		b)	Demonstrate usage of adding documents to a collection in MongoDB with suitable illustrations.	*CO3*	*PO2*	**10**
			OR			
	10	a)	Demonstrate usage of retrieving documents from a collection in MongoDB with suitable example.	*CO3*	*PO2*	**10**
		b)	Illustrate the usage of findAndRemove() method to remove a single Document from a Collection in MongoDB.	*CO3*	*PO2*	**10**

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