SREENIVASA INSTITUTE OF TECHNOLOGY AND MANAGEMENT STUDIES

(AUTONOMOUS)

Murukambattu, Chittoor

MCA DEPARTMENT

QUESTION BANK

For

24MCA123-Full Stack Web Development– 2026

Academic Year 2025-2026

Prepared by

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SUBJECT NAME: Full Stack Web Development **SUBJECT CODE: 24MCA123**

YEAR &SEM: I & II Academic Year: 2025-26

UNIT- I: OVERVIEW OF HTML AND CSS:		
HTML5: Introduction to HTML5, Browsers and HTML5, Editor's Offline and Online, Tags, Attribute and Elements, Doctype Element, Comments, Headings, Paragraphs, and Formatting Text, Lists and Links, Images and Tables CSS: Introduction CSS, Applying CSS to HTML5, Selectors, Properties and Values, CSS Colors and Backgrounds, CSS Box Model, CSS Margins, Padding, and Borders, CSS Text and Font Properties, CSS General Topics		
PART -A		
Q. No.	**Questions**	**Blooms Taxonomy Level**
1	What is HTML5?	L1
2	List any two new features of HTML5.	L1
3	What is the purpose of the <!DOCTYPE> declaration?	L1
4	Define HTML elements with an example.	L1
5	Differentiate between HTML tags and attributes.	L2
6	What is the role of the <head> tag in HTML?	L1
7	Write syntax to insert an image in HTML5.	L3
8	Define CSS and its use in web development.	L1
9	What is the box model in CSS?	L2
10	Write the syntax to apply an internal CSS.	L3
PART –B		
1	Explain the structure of an HTML5 document with example.	L2
2	Describe various types of HTML lists and how to create them.	L2
3	Write an HTML code to create a table with row and column spans.	L3
4	Discuss different types of CSS with examples.	L2
5	Explain the CSS box model with a neat diagram.	L2
6	How are margins, borders, and padding applied in CSS? Explain with code.	L3
7	Write HTML and CSS code to design a simple web page.	L3
8	Explain the different types of CSS selectors with examples.	L2
9.	What are the advantages of using CSS in web development?	L2
10.	Differentiate between inline, internal, and external CSS with examples.	L2
UNIT- II: OVERVIEW OF JAVASCRIPT		
JAVASCRIPT: Introduction to JavaScript, Applying JavaScript (internal and external), Understanding JS Syntax, Introduction to Document and Window Object, Variables and Operators, Data Types and Num Type Conversion, Math and String Manipulation, Objects and Arrays, Date and Time, Conditional Statements, Switch Case, Looping in JS and Functions.		
PART -A		
1	What is JavaScript?	L1
2	Write the syntax for declaring a variable in JS.	L3

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3	What are the different data types in JavaScript?	L1
4	Write the use of the Math object in JavaScript.	L2
5	What is the difference between == and === in JS?	L2
6	What is an array in JavaScript?	L1
7	Define a function in JavaScript.	L1
8	What is the purpose of the Date object in JavaScript?	L2
9	Write a for loop syntax in JavaScript.	L3
10	List any two string manipulation methods in JavaScript.	L1
PART –B		
1	Explain how to apply JavaScript internally and externally with examples.	L2
2	Describe the various conditional statements in JavaScript with syntax and examples.	L2
3	Write a program to demonstrate use of arrays and objects in JavaScript.	L3
4	Explain Math and String manipulation methods in JavaScript with examples.	L2
5	Write a program to check if a number is even or odd using JavaScript.	L3
6	Explain loops in JavaScript with suitable examples.	L2
7	Describe functions in JavaScript with types and examples.	L2
8	Explain Document and Window objects in JavaScript.	L2
9	Write a JavaScript program to calculate the factorial of a number.	L3
10	Discuss type conversion and its types in JavaScript.	L2

UNIT- III: REACT JS:		
Introduction, Templating using JSX, Components, State and Props, Lifecycle of Components, Rendering List and Portals, Error Handling, Routers, Redux and Redux Saga, Immutable.js, Service Side Rendering, Unit Testing, Webpack.		
PART -A		
1.	What is ReactJS?	L1
2.	Define JSX with example.	L1
3.	What are components in React?	L1
4.	What is the use of props in React?	L2
5.	What is a state in React?	L1
6.	List the lifecycle methods in React.	L1
7.	Define Redux.	L1
8.	What is a portal in ReactJS?	L2
9.	What is server-side rendering?	L2

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10.	What is the role of Webpack in React?	L2
	PART-B	
1.	Explain the concept of components in React with example.	L2
2.	Describe the state and props in React with examples.	L2
3.	Explain lifecycle methods of a React component.	L2
4.	Write a React component to display a list of items.	L3
5.	What is Redux? How does it work with React?	L2
6.	Explain JSX templating with examples.	L2
7.	Discuss the use of routers in React applications.	L2
8.	Explain error handling techniques in React.	L2
9.	How is unit testing done in React applications?	L3
10.	Discuss the role and working of Webpack in ReactJS development.	L2
	UNIT- IV: NODE JS	
	NodeJS: NodeJS Overview, NodeJS - Basics and Setup, NodeJS Console, NodeJS Command Utilities, NodeJS Modules, NodeJS Concepts, NodeJS Events, NodeJS with ExpressJS, NodeJS Database Access.	
	PART-A	
1.	What is NodeJS?	L1
2.	List the features of NodeJS.	L1
3.	What is npm in NodeJS?	L1
4.	What are modules in NodeJS?	L1
5.	Write syntax to import a module in NodeJS.	L3
6.	What is an event in NodeJS?	L1
7.	List built-in modules of NodeJS.	L1
8.	What is ExpressJS?	L1
9.	Write the use of 'fs' module in NodeJS.	L2
10.	Define NodeJS REPL.	L1
	PART-B	
1.	Explain the architecture of NodeJS.	L2
2.	Describe how to set up a NodeJS application.	L2
3.	What are NodeJS modules? Explain types with examples.	L2
4.	Write a program in NodeJS to create a simple server.	L3
5.	Discuss the event-driven model in NodeJS with example.	L2
6.	Explain ExpressJS and how it is used in NodeJS applications.	L2
7.	What are the core concepts of NodeJS?	L1
8.	How can NodeJS be used to interact with a database?	L3

9.	Describe NodeJS command-line utilities with examples.	L2
10.	Compare synchronous and asynchronous programming in NodeJS.	L4

UNIT- V: MONGO DB		
MongoDB: SQL and NoSQL Concepts Create and Manage MongoDB, Migration of Data into MongoDB, MongoDB with ReactJS, MongoDB with NodeJS, Services Offered by MongoDB.		
PART-A		
1.	What is MongoDB?	L1
2.	Define NoSQL.	L1
3.	What is the difference between SQL and NoSQL?	L2
4.	List the data types supported by MongoDB.	L1
5.	What is a document in MongoDB?	L1
6.	What is a collection in MongoDB?	L1
7.	Write the command to create a database in MongoDB.	L3
8.	What is the role of MongoDB in MERN stack?	L2
9.	List two services offered by MongoDB.	L1
10.	Define data migration in context of MongoDB.	L1
PART-B		
1.	Compare SQL and NoSQL databases.	L4
2.	Explain how to create and manage a database in MongoDB.	L3
3.	Describe the process of data migration to MongoDB.	L2
4.	Explain the use of MongoDB in NodeJS application with example.	L2
5.	Write a program to insert and retrieve documents in MongoDB.	L3
6.	Discuss services offered by MongoDB in detail.	L2
7.	How is MongoDB used in ReactJS applications?	L3
8.	Describe the structure of a MongoDB document.	L2
9.	Explain CRUD operations in MongoDB with examples.	L3
10.	Discuss advantages and limitations of using MongoDB.	L4