

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

MCA DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025

Second Semester

Master of Computer Applications

MC4201 / PMCT2421 - Full Stack Web Development

Regulations – 2021 & 2024

Duration : 3 Hrs

Maximum : 100 Marks

PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	Recall the basic structure of HTML web page.	L1	1	2
2.	Compare between get and post method in AJAX.	L2	1	2
3.	Relate the term web server with client.	L2	2	2
4.	Recall the Express framework and mention its features.	L1	2	2
5.	Evaluate the NoSQL database with relational databases.	L5	3	2
6.	Make use of cookies how to maintaining sessions and adding user-specific features in web app.	L3	3	2
7.	Construct a sample code to display the “Hello World” message using ReactDOM.	L3	4	2
8.	Assess the mechanism of Lifting state up technique in sharing the state between multiple components.	L5	4	2
9.	Infer the role of Docker image, and how is it different from a docker container?	L2	5	2
10.	Discover how the virtual machine differs from docker containers.	L4	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a i Explain the various Text Effect properties in CSS with example.	L2	1	8
	ii Explain the categories of CSS selectors with its template for the sample web page.	L2	1	8
	Or			
	b i Write the steps for invoking a function and returning a value from a function in JavaScript with an example.	L2	1	8
	ii Demonstrate any three JavaScript events with an appropriate uses cases.	L2	1	8
12.	a Summarize the steps for Fetching JSON from Express and show with code example.	L2	2	16
	Or			
	b Illustrate the various components and installation methods of NPM in detail.	L2	2	16

13.	a	Build an application for college admission process using NodeJS with MongoDB connection and perform insertion, deletion, updation and retrieving data from the database.	L3	3	16
	Or				
	b	Identify the handling of user authentication in NodeJS using session-based and token-based authentication with example.	L3	3	16
14.	a	Examine the various kinds of React JSX components and properties with suitable example.	L4	4	16
	Or				
	b	Inspect how the composition and inheritance methods are effectively useful for helping developers to create complex user interfaces and analyze the distinctions between composition and inheritance in React.	L4	4	16
15.	a	Assess the performance of various cloud providers in the context of services and features.	L5	5	16
	Or				
	b	Recommend the process for creating and deploying a Docker container.	L5	5	16