

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***MCA DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 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)**

Q.No	Questions	BLT	CO	Marks
1.	Write a HTML program to display the current date and time.	L3	1	2
2.	Specify the data types available in JavaScript.	L2	1	2
3.	Give an example for webserver.	L1	2	2
4.	Distinguish between client side and server-side program.	L4	2	2
5.	Mention the advantages of MongoDB system.	L1	3	2
6.	Recall, request body parsing in express.	L2	3	2
7.	Write the two ways to set up an environment for successful ReactJS application.	L1	4	2
8.	Build a React application which takes the username and password from the user and stores it as an item in the local storage of the user's computer.	L3	4	2
9.	Differentiate between public cloud and private cloud.	L4	5	2
10.	List the docker container commands.	L2	5	2

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

Q.No	Questions	BLT	CO	Marks
11.	a Write a HTML program to design a patient admission form. Get the personal details like name, age, address, mobile number, mail id and admit the patient in the hospital.	L3	1	16
	Or			
	b Build a Simple Calculator for performing arithmetic operations using HTML, CSS and JavaScript. User should be able to enter the numbers and display the result.	L3	1	16
12.	a Elaborate the basic concepts and installation of express framework.	L1	2	16

Or

	b	State and explain async/await function using suitable example.	L1	2	16
13.	a	Analyze the connection establishment of NodeJS with MongoDB and basic operations like insertion, deletion and updation in the database.	L4	3	16
		Or			
	b	Examine the process of Handling cookies and user authentication in NodeJS.	L4	3	16
14.	a	Illustrate the four phases of component lifecycle with neat diagram.	L2	4	16
		Or			
	b	Discuss the composition and inheritance approaches to use multiple components together in React.js.	L2	4	16
15.	a	Summarize the various cloud computing services that was offered by cloud providers.	L5	5	16
		Or			
	b	Assess the kubernetes container orchestration tool to monitor and manage container lifecycles in more complex environments.	L5	5	16