



CBCS SCHEME

MMC205

Second Semester MCA Degree Examination, Dec.2025/Jan.2026 Web Application Development

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
Q.1	a.	List and explain web technologies and protocols.	10	L2	CO1
	b.	Explain about multimedia elements (audio, video).	10	L2	CO1
OR					
Q.2	a.	Define & explain any 2 HTML5 APIs.	10	L2	CO1
	b.	Briefly explain Offline web applications using AppCache.	10	L2	CO1
Module – 2					
Q.3	a.	Mention any five CSS3 selectors and explain their use with a suitable example.	10	L2	CO2
	b.	What do you mean by positioning of an element. Discuss briefly about positioning types in CSS.	10	L2	CO2
OR					
Q.4	a.	Differentiate Between CSS Grid and Flexbox.	05	L2	CO2
	b.	What are the Key Principles of Responsive Web Design.	05	L2	CO2
	c.	What is Bootstrap?What are its features? Discuss about Bootstrap Utility classes.	10	L2	CO2
Module – 3					
Q.5	a.	How functions are declared in Javascript? Write a Javascript program to demonstrate the usage of functions.	10	L3	CO3
	b.	Explain briefly about DOM structure and manipulation.	10	L2	CO3
OR					
Q.6	a.	Differentiate between callbacks, promises, async/await.	10	L2	CO3
	b.	What is jQuery? What are the advantages of jQuery? Explain the syntax of jQuery script with a suitable example.	10	L3	CO3
Module – 4					
Q.7	a.	Define and list popular front-end frameworks. Explain the React framework with a code snippet.	10	L2	CO4
	b.	What is AngularJS? Explain the use of Modules with an example.	10	L2	CO4
OR					
Q.8	a.	What do you mean by dependency injection? How it works in AngularJS?	10	L2	CO4
	b.	With an example explain Single Page Applications(SPAs).	10	L3	CO4
Module – 5					
Q.9	a.	Define server-side languages. List and explain any one server-side languages with example.	10	L3	CO5
	b.	What are RESTful web services? Explain with an example.	10	L3	CO5
OR					
Q.10	a.	Explain the technologies involved in developing full stack web applications.	10	L2	CO5
	b.	Briefly explain Web application deployment on cloud platforms.	10	L2	CO5
