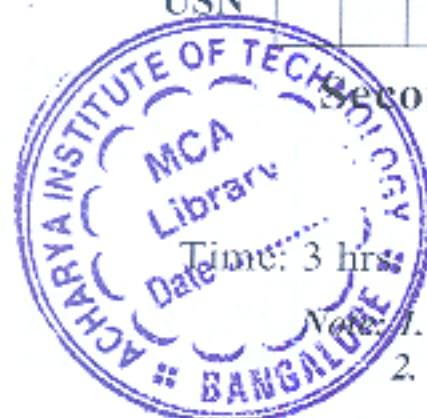




Second Semester MCA Degree Examination, June/July 2025
Web Application Development

Max. Marks: 100

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.	Explain the concept of client-server architecture with an example.		6	L2	CO1
	b.	Differentiate between front-end and back-end development.		4	L2	CO1
	c.	List any five HTML5 elements and explain their purpose.		5	L2	CO1
	d.	Explain how to embed an audio file in a web page using HTML5.		5	L2	CO1
OR						
Q.2	a.	Explain the use of the <canvas> element in HTML5. How is it different from SVG? Illustrate with examples.		10	L2	CO1
	b.	List any three HTML5 APIs and explain their functionality briefly.		10	L2	CO1
Module – 2						
Q.3	a.	What are CSS3 properties? List any five properties with their use. answer		7	L2	CO2
	b.	What is responsive web design? Why is it important?		6	L2	CO2
	c.	Write a CSS rule to change the background color of all <h1> elements to blue. Explain the selector and property used.		7	L3	CO2
OR						
Q.4	a.	What is Bootstrap? Mention two benefits of using it in web development.		4	L2	CO2
	b.	Describe how you would implement a mobile-first design using CSS.		6	L2	CO2
	c.	Show the effect of flexible images with an example HTML and CSS code snippet.		5	L2	CO2
	d.	Write a CSS snippet using class selectors and apply it to an HTML element.		5	L3	CO2
Module – 3						
Q.5	a.	Write a JavaScript program to find the largest of three numbers using if-else and explain the logic.		10	L3	CO3
	b.	Describe various JavaScript operators with at least two examples for each type.		10	L2	CO3
OR						
Q.6	a.	What is the Document Object Model (DOM)? Explain its structure and purpose.		10	L2	CO3
	b.	What is AJAX? Explain how it helps in loading data without reloading the page.		10	L3	CO3
Module – 4						
Q.7	a.	List any three popular front-end frameworks and describe their key features.		6	L2	CO4
	b.	Explain the concept of scope in AngularJS with a simple example.		7	L3	CO4
	c.	What are AngularJS expressions? How are they different from JavaScript expressions?		7	L2	CO4
OR						
Q.8	a.	Compare React, Angular, and Vue based on their structure and features.		8	L2	CO4
	b.	List the steps to create a simple AngularJS application.		5	L3	CO4
	c.	Compare Angular and React in terms of architecture and usage.		7	L2	CO4

Module – 5				
Q.9	a.	Differentiate between SQL and NoSQL databases with examples.	7	L2 CO5
	b.	Mention any two server-side languages and list the advantages of each.	7	L2 CO5
	c.	Define authentication and authorization in web applications.	6	L3 CO5
OR				
Q.10	a.	Describe the concept of full-stack development with a real-time example.	10	L3 CO5
	b.	How would you deploy a web application on a cloud hosting platform?	10	L3 CO5
