

**BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE
(AUTONOMOUS)**

II – MCA I - Semester Regular/Supplementary Examinations (BR23), Jan - 2026

WEB TECHNOLOGIES (MCA)

Time: 3 hours

Max. Marks: 70

***Answer any Five Questions One Question for One UNIT
ALL the Question Carry Equal Marks***

UNIT-I		Marks	CO	BL
1.a)	Explain the history of the Internet and its various protocols in detail.	7M	CO1	BL2
b)	Describe the structure of an HTML document and explain how to create forms and tables.	7M	CO1	BL3
OR				
2.a)	Discuss the different types of Cascading Style Sheets (CSS) with suitable examples.	7M	CO1	BL2
b)	Explain how to incorporate images and multimedia elements into a web page.	7M	CO1	BL2
UNIT-II		Marks	CO	BL
3.a)	Define XML and explain the rules for defining tags, attributes, and values.	7M	CO2	BL1
b)	What is Document Type Definition (DTD)? How to declare attributes, entities, elements.	7M	CO2	BL1
OR				
4.a)	Explain DOM Parser with suitable examples?	7M	CO2	BL2
b)	Explain the Document Object Model (DOM) and its role in parsing XML data.	7M	CO2	BL2
UNIT-III		Marks	CO	BL
5.a)	Discuss the Life Cycle of a Servlet and explain how to deploy a Servlet.	7M	CO3	BL2
b)	Describe the Servlet API and explain how to read initialization parameters.	7M	CO3	BL2
OR				
6.a)	Explain the mechanism of session tracking using Cookies and Sessions in Servlets.	7M	CO3	BL2
b)	Write the steps and code snippets required to connect to a database using JDBC in a Servlet.	7M	CO3	BL3
UNIT-IV		Marks	CO	BL
7.a)	Explain the anatomy of a JSP page and the different types of JSP directives.	7M	CO4	BL2
b)	What are JSP implicit objects? List and explain any four implicit objects.	7M	CO4	BL1
OR				
8.a)	Define JavaScript variables and explain the different event handlers like on Click and on Submit.	7M	CO4	BL2
b)	Discuss the importance of Form Validation in client-side scripting with an example.	7M	CO4	BL2

UNIT-V

	Marks	CO	BL
9.a) Explain the basic data types, arrays, and control structures available in PHP.	7M	CO5	BL2
b) Describe how to handle file uploads and read data from web form controls in PHP.	7M	CO5	BL3

OR

10.a) Explain the process of connecting to a MySQL database and executing queries using PHP.	14M	CO5	BL2
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