



P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Second Semester, Master of Computer Applications (MCA)

Semester End Examination; October - 2023

Web Technologies

Time: 3 hrs

Max. Marks: 100

Course Outcomes

The Students will be able to:

CO1: Understand the fundamental concepts of web.

CO2: Illustrate with example CSS tags.

CO3: Implement static and dynamic JavaScript document.

CO4: Design client/server program using PHP for a given problem.

CO5: Develop web page according to customer needs for a given problem.

Note: I) Answer any **FIVE** full questions, selecting **ONE** full question from each unit.

II) Any **THREE** units will have internal choice and remaining **TWO** unit questions are compulsory.

III) Each unit carries 20 marks.

Q. No.	Questions	Marks	BLs	COs	POs
UNIT - I		20			
1 a.	Elaborate on phases of HTTP.	10	L2	CO1	PO2
b.	Summarize on various higher level protocols used in web.	10	L2	CO1	PO2
UNIT - II		20			
2 a.	Develop an XHTML program for creation of frames which consist of 4 column frames and 2 row frames.	10	L3	CO2	PO1,2
b.	Demonstrate XHTML with CSS code that includes different border properties	10	L3	CO2	PO1,2
UNIT - III		20			
3 a.	Explain with an example, string objects and screen output used in JavaScript	10	L2	CO3	PO2
b.	Construct XHTML code that includes JavaScript script to read a number N and to find first N Fibonacci numbers.	10	L3	CO3	PO2
OR					
d.	Explain different levels of DOM. Explain its structure.	10	L2	CO3	PO2
e.	Write an XHTML with JavaScript code to validate student USN and Semester.	10	L2	CO3	PO1,2
UNIT - IV		20			
4 a.	Write an XHTML with JavaScript code that illustrate stacking of three elements.	10	L3	CO4	PO2
b.	With an example program, explain different positioning elements in JavaScript.	10	L2	CO4	PO2

OR

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|--|----|----|-----|-----|
| d. Explain with example how elements, attributes and entities are declared. | 10 | L2 | CO4 | PO2 |
| e. Design an XML document to store information about a student in an engineering college. It must include USN, Name, Name of the College, Branch, Year of Joining, and e-mail id. Make up sample data for three students. Create a CSS style sheet and use it to display the document. | 10 | L3 | CO4 | PO2 |

UNIT - V**20**

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|---|----|----|-----|-------|
| 5 a. Elaborate on uses of PHP and different scalar primitive types used in PHP. | 10 | L2 | CO5 | PO1,2 |
| b. Explain different predefined functions and string functions used in PHP. | 10 | L2 | CO5 | PO1,2 |

OR

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|--|----|----|-----|-------|
| d. Write PHP program to input previous reading and present reading and prepare electricity bill. | 10 | L3 | CO5 | PO1,2 |
| e. Explain in detail Pattern matching used in PHP. | 10 | L2 | CO5 | PO1,2 |

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