



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

WINTER-2025	
Exam Seat No.:	
Academic Year:2025-2026	Semester:I
Class:FYMCA	Program:MCA
Branch Code:M.C.A.	Pattern:2024
Name of Course:Web Technologies	Course Code:2409513
Max. Marks:60	Duration:2.30 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains TWO page(s).
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

Marks CO

Question No. 1

- 1a) Describe how HTML5 is used in modern web development and explain in what ways it improves the user experience compared to older versions of HTML. (6) CO1

Question No. 2

- 2a) Write and apply a JavaScript function to determine whether a given number is even or odd, and demonstrate how the logic works with an example. (6) CO2

Question No. 3

- 3a) Use real-world scenarios to illustrate how XML and JSON can be applied, and explain how their advantages and disadvantages affect their usage in those situations. (8) CO3

OR

- 3b) Describe JSON documentation. Illustrate how JSON elements are documented with acceptable values, data types, and nesting rules. Provide an example of documentation for a JSON object. (8) CO3
- 3c) Develop a sample JSON file for a library system and demonstrate how it can be applied in practice. Then, explain how its structure and usage differ from an equivalent XML representation. (8) CO3

OR

- 3d) What is JSON? Demonstrate the working of JSON with a practical example. (8) CO3

Question No. 4

- 4a) How would you implement the control statements in PHP with a focus on if-else, switch, and for each, using suitable example. (8) CO4

OR

- 4b) Write and apply a PHP script that inserts form data (name and email) into a MySQL database, and demonstrate how the flow of execution and error handling work in this process. (8) CO4
- 4c) How to create and use a PHP array concept which helps to store student scores and calculate the average using a loop. (8) CO4

OR

- 4d) Design a sample MySQL database schema for a small application, and then implement it in PHP by writing and executing SQL queries to insert, retrieve, and update data. Demonstrate the implementation with working PHP code and explain how each part of the code applies the schema and performs the database operations. (8) CO4

Question No. 5

- 5a) Explain how ASP processes a client request. Illustrate the role of core ASP objects in managing user input. Provide an example of a simple ASP form processing. (8) CO5

OR

- 5b) Describe the stages of the JSP lifecycle and apply your understanding by explaining how these stages help in designing efficient JSP pages with an example. (8) CO5
- 5c) Apply your understanding of the .NET Framework by identifying the features that support rapid web application development in ASP.NET Web Forms and MVC, and demonstrate how the page lifecycle differs when these two approaches are used in real development scenarios. (8) CO5

OR

- 5d) Illustrate the role of the form tag in ASP and how it supports server-side scripting in web applications. (8) CO5

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