



**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:2022
Name of Course:Web Technology	Course Code:MCA221004
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) Explain how headings, paragraphs, line breaks, colors, and fonts are used in HTML5 (give a one-line example for each). (6) CO1

**Question No. 2**

- 2a) Apply JavaScript number, string, and array properties to create a small script that prints one example of each. (6) CO2

**Question No. 3**

- 3a) Apply XML rules to create a small XML document showing structure, entity references, and a DTD. (8) CO3

**OR**

- 3b) Use the differences between XML and HTML to reorganize a sample webpage into XML format. (8) CO3
- 3c) Apply JSON concepts to create a JSON file and show how element nesting and acceptable values work. (8) CO3

**OR**

- 3d) Use JSON formatting methods to document a JSON element, showing an alternative to standard indenting. (8) CO3

**Question No. 4**

- 4a) Use JSON formatting methods to document a JSON element, showing an alternative to standard indenting. (8) CO4

**OR**

- 4b) Use PHP arrays and functions to process and display a set of user inputs. (8) CO4
- 4c) Apply web-app architecture rules to arrange the structure of a simple PHP application. (8) CO4

**OR**

- 4d) Use PHP and SQL together to design a small database and run a basic MySQL query. (8) CO4

**Question No. 5**

5a) Apply Angular components, templates, and data binding to build a small interactive UI. (8) CO5

**OR**

5b) Use NgModule and directives (structure & template) to organize and control an Angular page. (8) CO5

5c) Apply Angular forms and services by creating a form and injecting a service to process the data. (8) CO5

**OR**

5d) Use API methods (GET, POST, PUT, DELETE) to connect an Angular app to a backend server. (8) CO5

..... **End of question paper**.....