

1C8115

Roll No. _____

Total No. of Pages: **2****1C8115****M.C.A. I-Sem. (Main / Back) Exam., 2026****MCA-106 Web Technologies****Time: 3 Hours****Maximum Marks: 70**
Min. Passing Marks: 28*Instructions to Candidates:*

Attempt all Ten questions from Part A. All five questions from Part B and three questions out of five questions from Part C.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (As mentioned in form No. 205)

1. NIL2. NIL**PART – A****[10×2=20]****(Word limit 25)**

- Q.1 Explain the structure and working of a typical HTML document. How does a browser interpret HTML code?
- Q.2 Differentiate between HTML elements and HTML attributes with suitable examples.
- Q.3 Describe the role of JavaScript in enhancing the interactivity of a webpage.
- Q.4 Explain variable declaration, scope and data types in JavaScript with examples.
- Q.5 Differentiate between inline, internal and external style sheets. Which one is preferred and why?

- Q.6 What are CSS pseudo-classes and pseudo-elements? Give suitable examples.
- Q.7 What are the key features of PHP? Explain how PHP interacts with HTML.
- Q.8 Explain the use of include() and require() statements in PHP. How do they differ?
- Q.9 Explain the working of GET and POST methods for form submission in PHP.
- Q.10 Differentiate between require and include statement.

PART – B

[5×4=20]

(Word limit 100)

- Q.1 What are hyperlinks and image maps? Explain how they are created using proper tags. <https://www.pyqonline.com>
- Q.2 What are functions in JavaScript? Write a program to calculate the factorial of a number using a function.
- Q.3 What is the CSS Box Model? Explain its components with a neat diagram.
- Q.4 Describe different data types and operators used in PHP with examples.
- Q.5 Describe the process of connecting PHP to a MySQL database using 'mysqli_connect()' function.

PART – C

[3×10=30]

(Attempt any three questions)

- Q.1 Describe various HTML5 form input types and their importance in form validation.
- Q.2 Differentiate between client-side and server-side scripting with advantages and examples.
- Q.3 What is the DOM (Document Object Model)? Explain how JavaScript interacts with the DOM for dynamic web pages.
- Q.4 Explain the architecture of a web server and how PHP scripts are executed.
- Q.5 What is session management in PHP? Differentiate between session and cookie with examples.