MCA-304/MSCCS-107

June - Examination 2026

MSCCS (Previous)/MCA 1st/ MCA 3rd Year Examination

Advanced Web Technology

Paper : MCA-304/MSCCS-107

[*Time: **3** Hours*] [*Maximum Marks: **80***]

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions in each section.

Section-A **8×2=16**

(Very Short Answer Type Questions)

Note :- Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries **2** marks.

1. (i) Enumerate various types of HTML Lists. Give an example for each.
   (ii) Write the SQL statement to delete the whole database.
   (iii) What is the purpose of the isNaN() function?
   (iv) What is the purpose of the "<noscript> </noscript>" HTML tags?
   (v) What is a meta description tag used for? Give an example.
   (vi) Differentiate between include() and require() in PHP.
   (vii) Define the CSS 'z-index' property. Give a suitable example.
   (viii) Differentiate between id and class selectors in CSS.

Section-B **4×8=32**

(Short Answer Type Questions)

Note :- Answer **any four** questions. You have to delimit your each answer maximum up to **200** words. Each question carries **8** marks.

2. Write and explain the JavaScript function to validate a simple HTML checkout form. The script must ensure the "email" field contains an "@" symbol and the "password" field is at least 8 characters long, triggering a browser alert if either condition fails.
3. Differentiate between XML and HTML.
4. What is AJAX? Explain an AJAX application in web development. Distinguish between AJAX and JavaScript.
5. Describe the mechanism of file uploading in PHP. Outline the necessary HTML form attributes and the global PHP array used to handle the uploaded file on the server.

6. How is the MVC framework used for building PHP applications? Explain with a suitable example.

7. Explain the concept of Object-Oriented PHP. How are classes and objects instantiated? Explain with examples.

8. What is PHP? Discuss various control structures available in PHP with suitable examples.

9. Explain the underlying working mechanism of modern search engines and list three common on-page Search Engine Optimization (SEO) techniques.

Section-C

2×16=32

(Long Answer Type Questions)

Note :- Answer **any two** questions. You have to delimit your each answer maximum up to **500** words. Each question carries **16** marks.

10. What do you mean by Cloud Computing? Explain various Cloud Delivery Models in detail.

11. What is HTML5? Explain various HTML5 tags, elements, and attributes with suitable examples.

12. How are jQuery methods used for changing and manipulating HTML elements and their attributes? Explain in detail.

13. Briefly introduce the concept of a Web Content Management System (WCMS). Compare the general use cases for WordPress, Drupal, and Joomla when deciding how to build a new website.
