

MCA-304/MSCCS-107

December - Examination 2025

MSCCS (Previous)/ 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.

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) What is the use of Anchor Tags in HTML? Give an example.
- (ii) Who do you mean by MVC?
- (iii) What is a "Sitemap" in SEO, and why is it important for search engines?
- (iv) What is the difference between an external CSS and an internal CSS? Give an example.
- (v) Why are attributes used in XML? Give an example.
- (vi) What do you mean by Open Source?
- (vii) How do check boxes and radio button is differ in HTML? Give the examples.
- (viii) What is the full form of SQL?

Section-B

4×8=32

(Short Answer Type Questions)

Note :- Answer **any four** questions. Each answer should not exceed **200** words. Each question carries **8** marks.

2. Write and explain a JavaScript program to convert temperature from Celsius to Fahrenheit and vice versa.
3. Compare and contrast XML and JSON as data interchange formats in modern web applications.

4. What is an AJAX? How can we add AJAX functionality in JavaScript? Describe with suitable examples.
5. Explain the concept of "CSS Box Model" and how it affects the layout of web elements with a suitable example.
6. Discuss the session. Explain the usage of sessions with their creation and destruction.
7. What is the HTML5 Client Side Web Storage API? Explain with examples.
8. Describe some common methods for achieving a high ranking using SEO.
9. Write a short note a Joomla.

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 is Virtualization? Explain different types of virtualization in cloud computing.
11. Discuss the security vulnerabilities in web applications, specifically "SQL Injection" and "Cross-Site Scripting" (XSS). Provide PHP code examples demonstrating how to prevent these attacks using prepared statements and data sanitisation.
12. Describe the CRUD (Create, Read, Update, and Delete) operation with respect to MySQL and PHP with suitable examples.
13. How does PHP support Object Oriented Programming? Explain with suitable examples.
