

11. Explain the concept of AJAX and its importance in Modern Web Development. Provide an example of an AJAX request that retrieves data from a server and displays it on a web page without reloading.
12. What do you mean by Cloud Computing ? Discuss various Cloud Delivery Models. Also give suitable examples.
13. Outline effective SEO strategies to achieve high search engine rankings. Discuss the role of keywords, metadata, content quality, backlinks and user experience.

MCA-304

June – Examination 2024

MCA (IIIrd Year) Examination

Advance Web Technology

Paper : MCA-304

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 does DOM stand for in Web Development ?

- (ii) How do you declare a variable in PHP ? Give an example.
- (iii) Give an example of CSS Class Selector.
- (iv) What is JSON ? Give an example.
- (v) Write the syntax of INSERT Query Statement. Also give the example.
- (vi) List the basic differences between Checkbox and Radio Button Control.
- (vii) What is the purpose of the <meta> tag in HTML ? Give examples.
- (viii) What is the full form of AJAX ?

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. How can you handle form submissions using JavaScript ? Provide a brief explanation with an example.
- 3. Explain how JavaScript event handlers work with examples of Onclick and Onload Events.

- 4. Write a JavaScript program to validate a user registration form, ensuring the username is at least 5 characters long, the email is in a proper format, and the password is at least 8 characters long.
- 5. What is the HTML5 Local Storage API ? Explain with examples.
- 6. Discuss the role of the MVC design pattern in Web Application Development.
- 7. Write a short note on Object-oriented PHP.
- 8. Describe the difference between HTML and XML with suitable example.
- 9. Write a short note on WordPress.

Section–C **2×16=32**

(Long Answer Type Questions)

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

- 10. Explain the role of server-side scripting languages in Web development. Write a PHP program to validate a form that includes an email, a phone number and a password field. Provide explanations for each part of the code.