

MCA/D-16  
ADVANCED WEB TECHNOLOGY  
PAPER : MCA-14-52

Time Allowed: 3 Hours

Maximum Marks: 80

Note: Attempt five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

**Compulsory Question**

1. Write short notes on following :
  - (a) Use of optimization tools in web sites and Navigation styles in web sites.
  - (b) Regular expressions in PHP and their use
  - (c) MVC
  - (d) DOS attack.

Unit-I

2. (a) Differentiate between search engine optimization for Web site and single web pages. Explain using suitable examples
- (b) How optimization tools will help in optimization of web sites?
2. Explain the steps used for serving a client side request of a web page starting from HTTP-Request generation to HTTP Response generation.

Unit-II

4. (a) What is a LAMP/WAMP Server ? Explain the components and their use on website design.
- (b) Design a form in HTML asking for a customer data and process the form using MySQL and PHP at the back-end
5. Explain the following in PHP :
  - (a) Code blocks and Browser output
  - (b) Dynamic Contents in PHP.

### Unit-III

6.
  - (a) Write a brief note on Object Oriented features of Java Script.
  - (b) What is AJAX ? What is the advantage of this ? Discuss.
  - (c) What is the use of JQuery? Explain.
7.
  - (a) What is DOM? Explain how to handle DOM using HTML and Java Script to design web sites using suitable examples.
  - (c) Write short note on MVC development.

### Unit-IV

8.
  - (a) What do you understand by Tuning of MySQL? Discuss.
  - (b) Write a note on Query Optimization and Execution in MySQL.
9.
  - (a) What do you understand by SQL injection? How is it carried out? Discuss suitable example.
  - (b) What precautions should be taken to avoid SQLInjection attack during web site designing? Discuss.