

Roll No.

Total Pages : 2

CMCA/D-17

10448

ADVANCED WEB TECHNOLOGY

Paper: MCA-14-52

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *five* questions in all, selecting *one* question from each unit. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. Write short notes on the following :

- (a) CSS Expressions.
- (b) Buffering and Weblog.
- (c) Associative arrays in PHP.
- (d) Optimizing SQL queries at server side.

UNIT-I

2. (a) How DNS servers are useful in web services ? Explain using suitable examples.

(b) What are the different parameters considered for Search Engines Optimization ? Discuss.

3. How the search engine optimization process is affected by the following :

- (a) Keyword density.
- (b) Navigation styles of web sites.
- (c) Broken links.

UNIT-II

4. (a) What do you understand by regular expression ? Discuss the features available in PHP for handling strings and regular expression. Using suitable example.
(b) What is Exception handling ? How the exceptions are handled in PHP ? Explain using suitable examples.
5. How session is a useful concept in e-commerce website ? Explain how session management is achieved in PHP.

UNIT-III

6. (a) What is Event handling in JavaScript ? Explain any *four* events associated with different HTML controls.
(b) Explain web design frameworks using MVC and design patterns.
7. How form handling is achieved using JavaScript ? Design three web pages (Signin, SignUp & Home) using HTML and CSS and apply JavaScript for client side validations.

UNIT-IV

8. Explain the following :
 - (a) Load balancer.
 - (b) Query caching.
 - (c) Query log.
9. What are the common vulnerabilities in the web sites? How are these exploited by attackers? Explain any *one* suitable example.