

Roll No. ....

Total No. of Pages : 2

**MCA/MX**  
**Web Engineering**  
**Paper : MCA-401**

**5266**

Time : Three Hours]

[Maximum Marks : 80

Note :- Candidates are required to attempt ONE question each from the Units I, II, III and IV of the question paper and question number 1 is compulsory.

1. Write short notes on the following :

- (a) Differentiate between conceptual and high level design.
- (b) Page Mockups.
- (c) Static and Dynamic web pages.
- (d) Image Maps.
- (e) JSP Objects.
- (f) Advantages of a Proxy server.
- (g) The role of XSL.
- (h) What is SGML ?

8×3=24

**UNIT — I**

- 2. (a) What is WWW ? Discuss the need and role of Information Architecture.
- (b) What are navigation systems ? Explain
- 3. (a) Discuss the phases of web site development.
- (b) Discuss the importance of design sketches for good web design.

7, 7

**UNIT — II**

- 4. (a) What are the different ways of HTML and CSS integration ? Explain with suitable examples.
- (b) How HTML Forms are different from HTML Frames ? Discuss the core attributes of HTML Forms and Frames. 7, 7
- 5. (a) What do you mean by Markup Language ? How they are different from Programming Languages ? Explain the HTML page structure with suitable example.
- (b) Explain all the attributes of Table tag ? Write a HTML code to demonstrate table as layout tool. 7, 7

**UNIT — III**

- 6. (a) What is CGI-Perl ? Write a program to print server variables.
- (b) Explain JSP request and response objects with suitable example. 7, 7
- 7. (a) Discuss the process of retrieving the contents from an HTML form using JSP.
- (b) What is a firewall ? How a proxy server can act as a firewall ? Discuss. 7, 7

**UNIT — IV**

- 8. (a) What are cookies ? How they are created ? Explain its various attributes.
- (b) Differentiate between XML and HTML. How XML files are used in HTML pages ? 7, 7
- 9. (a) Discuss the differences and similarities among CGI-Perl, JSP and ASP.
- (b) How CSS and XSL are used for displaying XML ? Discuss with example. 7, 7