Web. Egg.
Paper : MCA 401

Time: Three Hours   **Maximum Marks: 80**

Note: Students will be required to attempt FIVE questions in all. Question No. 1 is compulsory. In addition to compulsory question, students will have to attempt four more questions, selecting one question from each Unit.

1. Explain the following:
   (i) Page mockups
   (ii) Good and bad design process
   (iii) Forms and Frames
   (iv) Form Control and Form Elements
   (v) ASP and JSP
   (vi) Request and response object for JSP
   (vii) Converting XML to HTML
   (viii) Reading and creating cookies.

Unit-I

2. Explain the need and role of Information Architecture. What are various challenges in organization information?
3. (a) Explain the mechanism of searching system. How you can design search interface?
   (b) Explain various types of navigation systems.

UNIT-II

4. What are HTML core attributes and language attribute? Discuss with HTML-Cade
5. Explain various CSS and HTML elements with suitable code.

UNIT-III

6. Explain the following:
   (a) proxies and firewalls
   (b) JSP objects and components
   (c) Layouts in HTML
   (d) Form and Frames
   (e) Video and audio support to web page
7. (a) What are coding guidelines for writing CGI code?
   (b) Discuss the efficiency and optimization techniques for CGI.

UNIT-IV

8.   What are cascading style sheets? What are their importance in HTML? Write CSS code for altering formats of a regular text your output also.

9.   Write short notes on the following:
- (i)   XML Data files
- (ii)   SGML
- (iii)   META information
- (iv)   Java Beans
- (v)   XSL