

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014**

**Subject Code: 160705****Date: 26-05-2014****Subject Name: Web Application Development****Time: 10:30 am - 01:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) (i) What components are used by modern email? **04**  
(ii) Write the HTML snippet to show each letter of a word with new color, giving a rainbow effect. **03**
- (b) Write the points those should be considered while planning a web site. **07**
- Q.2** (a) (i) Explain how does the session run when a Telnet program try to connect to a Web server and ask for the initial page? **04**  
(ii) How can you do following with cascading style sheet? **03**  
a. Text Decoration  
b. Text Indentation
- (b) (i) Write a JavaScript that uses function to calculate how many days are left in your birthday? **04**  
(ii) Explain elements of XML **03**
- OR**
- (b) (i) Write a JavaScript, that uses a loop, that searches a word in sentence held in an array, returning the index of the word. **04**  
(ii) What is the need for web services? **03**
- Q.3** (a) Explain the following with example **07**  
(i) Unordered lists  
(ii) Ordered lists  
(iii) Nested lists  
(iv) Definition lists
- (b) What is Metadata? Where it is included in HTML and XHTML? Explain with example how Metadata is included in a document? **07**  
Also show how can following be achieved with the help of Metadata?  
(i) Stop the page from being listed.  
(ii) Set an expiration date  
(iii) Stop the browser from caching a page.  
(iv) Give a context for date so that it can take format MM-DD-YYYY and DD-MM-YYYY

**OR**

- Q.3 (a)** Explain the concept of irregularly shaped tables. Write the HTML snippet to get the following output and properly defined headers. **07**

|            | Exam Time table |               |        |
|------------|-----------------|---------------|--------|
|            | Green Park      | Oxford circus | Euston |
| 12/10/2012 | WT              | TOC           | CG     |
| 13/10/2012 | TOC             | CG            | WT     |

- (b)** How can a style sheet be linked to a web page or how a cascaded style sheet be embedded within a document? With the help of cascaded style sheet change background color. What changes are to be done to set an image as a background? Manipulate a background image so it can be repeated over an area. **07**

- Q.4 (a)** Explain the Document Object Model. Explain the explain document object with example. **07**

- (b)** Explain Document type Definitions in XML. **07**

**OR**

- Q.4 (a)** Show the use of events for the following with example. **07**

- (i) Trap the exiting of the user from a page.
- (ii) Show the heading. When the mouse is over the heading the background color should be yellow and when the mouse goes out of the heading, color should change to black.

- Q.4 (b)** Explain the following XSL(XML stylesheet elements) **07**

- (i) value-of
- (ii) for-each
- (iii) sort

- Q.5 (a)** What is a blog? What subject areas can be covered in blogs? **07**

- (b)** With the use of PHP, write two scripts, one to pick up details of a library customer and the other to store the details(in variables) and display them. **07**

**OR**

- Q.5 (a)** Explain RSS(Really Simple Syndication) <channel> elements and <item> elements. **07**

- (b)** With the use of PHP, switch case and if structure perform the following and print appropriate message. **07**

- (i) Get today's date
- (ii) if date is 3, it is dentist appointment.
- (iii) If date is 10, go to conference.
- (iv) If date is other than 3 and 10, no events are scheduled.

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