Subject Code: 160705

**Subject Name: Web Application Development** 

## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION - SUMMER • 2014

Date: 26-05-2014

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. 0.1 04 (a) (i) What components are used by modern email? (ii) Write the HTML snippet to show each letter of a word with new color, giving 03 a rainbow effect. **(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 04 Web server and ask for the initial page? (ii) How can you do following with cascading style sheet? a. Text Decoration 03 b. Text Indentation **(b)** (i) Write a JavaScript that uses function to calculate how many days are left in 04 your birthday? (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 04 array, returning the index of the word. (ii) What is the need for web services? 03 Explain the following with example **07** 0.3 (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 07 how Metadata is included in a document? 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 07 following output and properly defined headers.

|            | 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.
- Q.4 (a) Explain the Document Object Model. Explain the explain document object with 07 example.
  - (b) Explain Document type Definitions in XML.

OR

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

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- (i) value-of
- (ii) for-each
- (iii) sort
- Q.5 (a) What is a blog? What subject areas can be covered in blogs?

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**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.

OR

- **Q.5** (a) Explain RSS(Really Simple Syndication) <channel> elements and <item> elements.
  - (b) With the use of PHP, switch case and if structure perform the following and print 07 appropriate message.
    - (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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