

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- VI<sup>th</sup> SEMESTER–EXAMINATION – MAY- 2012****Subject code: 160705****Date: 19/05/2012****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) 07**(i) Explain the following HTTP command **04**

GET /index.html HTTP/1.0

(ii) Write HTML tags to generate the following output. **03**

Position	Name	City
Sales	I. Hawthorn Shield	A. UK
Manager	II. Green Shield	B. Netherland

**(b) 07**(i) Explain the document structure of XHTML document. **04**(ii) Explain the architecture of the browser. **03****Q.2 (a) 07**(i) Write a JavaScript to print characters of a string at odd positions.(for example for the string India, I, d and a should get printed). **04**(ii) Write a JavaScript to take 2 digit number and then separate these 2 digits, then multiply first digit by itself for second digit times.( for example, 23 should be separated as 2 and 3. 2 should multiply with itself 3 times). **03**

**(b) Write modules using HTML and PHP to store information of employee (employee id, job title, years of experience) in an array. And output the data to a web page by arranging the employees in ascending order of experience. 07**

**OR**

**(b) Create a database called country and create table called city having fields (cityname, area, population) using PHP commands. Create an HTML form to get the city data and write a script to insert that data into the table. 07**

**Q.3 (a) 07**(i) What role does the following parameter play in web site design issues? **04**

- a. Bandwidth and cache
- b. sitemap

(ii) Explain document object in JavaScript. **03**

**(b) Write the following styles in separate CSS file and also show how to link this CSS file in HTML file and show use of styles. 07**

- (i) The headings should have normal font style and font's size should be 120%

- (ii) Define a class arial for paragraph which defines font family arial and font style bold.
- (iii) Apply a background color yellow and apply a background image "browntile.jpg"

**OR**

- Q.3** (a) How user defined objects are created in JavaScript? How a constructor can be used to populate data in the object? **07**
- (b) What is the difference between class and id? How can a style rule be defined with an id redheading that gives red color to heading h1 with text of heading right aligned? What would be the output of the following code in relation to style defined in this problem? **07**
- ```
<h2 id="redheading"> This is red heading</h2>
<p id="redheading"> This is red heading</p>
<h1 id="redheading"> This is red heading</h1>
```

- Q.4** (a) **07**
- (i) How can a browser be stopped from caching a page? **02**
  - (ii) How Divide and Pound symbol can be put on HTML document? **02**
  - (iii) Show the use of inline frame in XHTML document. **03**
- (b) Explain the use of XSL Elements value-of, for-each, sort with example. **07**

**OR**

- Q.4** (a) **07**
- (i) Explain the following HTML tags. **04**
    - a. <dl> </dl>
    - b. <input type="file"/>
  - (ii) Show the use of events to change background color with DHTML. If mouse button is pressed, background color should be red. If mouse button is released up, background color should be yellow. **03**
- (b) Explain the two ways in which XML parser checks whether a document follows the expected order and structure. **07**

- Q.5** (a) Explain RSS <item> elements with example. **07**
- (b) **07**
- (i) What is a blog? **04**
  - (ii) What are Web feeds? **03**

**OR**

- Q.5** (a) Explain elements of SOAP with XML. **07**
- (b) **07**
- (i) What is stored in Content-Type header for a SOAP request and response? **04**
  - (ii) What is the need for web service? **03**

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