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**Seventh Semester B.E. Degree Examination, Dec.2014/Jan.2015**  
**Programming the Web**

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting  
at least TWO questions from each part.**

**PART - A**

1.
  - a. What is web browser and web server? Explain how communication takes place between web browser and web server. (07 Marks)
  - b. What is the purpose of a MIME type specification in a request / response transaction between a browser and a server? (05 Marks)
  - c. Explain how the text content of an XHTML document can be formatted with XHTML tags with suitable examples. (08 Marks)
2.
  - a. Which widgets are created with the <input> tag? Explain with examples. (08 Marks)
  - b. Briefly explain the different selector forms of the CSS. Illustrate the use of each with suitable example. (12 Marks)
3.
  - a. Describe briefly the major differences between Java and JavaScript. (04 Marks)
  - b. Describe the two ways an Array object can be created. Explain the Array methods with suitable example for each. (12 Marks)
  - c. Write a Javascript to generate first 4 Fibonacci numbers. (04 Marks)
4.
  - a. Explain the basic concepts of event handling. List the events and their tag attribute. (12 Marks)
  - b. What is a dynamic XHTML document? How positioning and moving of elements are done in dynamic XHTML? (08 Marks)

**PART - B**

5.
  - a. Explain the four possible keywords used in a DTD declaration. (10 Marks)
  - b. Create a DTD for a catalog of cars, where each car has the child elements make, model, year, color, engine, number-of-doors, transmission type and accessories. The engine element has the child elements number of cylinders and fuel system. The accessories element has the attributes radio, air-conditioning, power-windows and power-brakes, each of which is required and has the possible values yes and no. Entities must be declared for the names of popular car makes. (10 Marks)
6.
  - a. Briefly describe string functions of perl with suitable example. (05 Marks)
  - b. Write a perl program to read three numbers a, b and c, each on its own line, from the keyboard. And return the value of the expression  $loab - \lfloor \frac{c-1}{17.44} \rfloor$  (06 Marks)
  - c. What is a query string? What is the format of a query string that has multiple widget data values? How is a query string transmitted to the server with get method? (09 Marks)
7.
  - a. Explain the actions of the implode and explode functions. (03 Marks)
  - b. Describe how files are created, read and write on the server system using PHP. (12 Marks)
  - c. What is cookie? How it can be created in a PHP script? (05 Marks)
8. Write a short notes on:
  - a. Ruby. (05 Marks)
  - b. Rails. (05 Marks)
  - c. Data access with perl and MYSQL. (05 Marks)
  - d. Document object model. (05 Marks)

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