

--	--	--	--	--	--	--	--	--	--

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 in 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 $10ab - \frac{c-1}{17.44}$ (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)

* * * * *

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.