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Seventh Semester B.E. Degree Examination, June/July 2013
Programming the Web

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. What is a web server? Briefly explain the general characteristics of the web server. (07 Marks)
- b. Briefly explain why should one use XHTML over HTML. (05 Marks)
- c. Explain the standard XHTML document structure. (08 Marks)
- 2 a. Explain the syntactic differences between XHTML and HTML. (08 Marks)
- b. Write a XHTML program to create a table with two levels of column label : an overall label, meals and three secondary labels, breakfast, lunch and dinner. There must be two levels of row labels : an overall label, foods and four secondary labels, bread, main course, vegetable and dessert. The cells of the table must contain a number of grams for each category of the food. (12 Marks)
- 3 a. Write CSS style rule and explain the different selector forms, with examples. (10 Marks)
- b. Write a XHTML program to create nested ordered lists of cars. The outer list must have three entries : compact, midsize and sports. Inside each of these three lists there must be two sublists of body styles. The compact and midsize car sublists are two doors and four doors; the sports car sublists are coupe and convertible. Each body –style sublist must have atleast three entries, each of which is make and model of the particular car that fits the category. The outer list must use uppercase roman numerals, the middle lists must use uppercase letters, and the inner lists must use Arabic numbers. All of the styles must be in a document style sheet. (10 Marks)
- 4 a. Explain how objects in Javascript are created, modified, and accessed with code snippets. (08 Marks)
- b. Explain array object methods in Javascript, with examples. (04 Marks)
- c. Explain the metacharacters pre – defined character classes in Javascript, with examples. (08 Marks)

PART – B

- 5 a. Explain the different ways to access XHTML elements, and discuss the problem associated with each scheme. Show the code snippets. (10 Marks)
- b. Write a program in XHTML to create five radio buttons, labeled red, blue, green, yellow and orange. The event handlers for these buttons must produce message stating the chosen favorite color. The event handler must be implemented as a function. Assign the event handler to the event property of the button element. (10 Marks)
- 6 a. What is a dynamic XHTML document? How the changes are made? (02 Marks)
- b. Write a dynamic XHTML program to display an image and allows the user to toggle with a button causing the image to appear and not appear in the document display. (08 Marks)
- c. Briefly explain the properties defined in MouseEvent interface. Write a dynamic XHTML program to display these properties in text boxes every time the mouse button is clicked. (08 Marks)
- d. Describe the parameters and actions of the SetInterval method. (02 Marks)

- 7 a. 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, power_steering, 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, create an XML document that is valid for this DTD. (07 Marks)
- b. Explain the transformation process by an XSLT processor. (05 Marks)
- c. Discuss the disadvantages of DTDs and how they are overcome. (06 Marks)
- d. Discuss SOAP. (02 Marks)
- 8 a. Explain the various categories of Perl variables. (12 Marks)
- b. Explain the common CGI. Pm functions, with examples. (08 Marks)

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