Seventh Semester B.E. Degree Examination, June/July 2024
Programming the Web

Time: 3 hrs.   Max. Marks:100

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

PART – A

1 a. Bring out the difference between HTML and XHTML.   **(04 Marks)**
   b. Explain different types of image formats and <img> tag with all attributes with simple example.   **(06 Marks)**
   c. Explain different phases available in HTTP in detail.   **(10 Marks)**

2 a. Discuss the different selector forms available in CSS with example. **(12 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 label : An overall label : food and four secondary labels : Bread, main course, vegitable and dessert. The cells of the label must contain a number of grams for each category of the food.   **(08 Marks)**

3 a. List and explain different primitive types are available in JavaScript. **(05 Marks)**
   b. Discuss the concept of object creation and modification in Javascript. **(08 Marks)**
   c. Write a Javascript to validate the name, the name should be entered using the prompt. The first and last name should not be more than 10 characters and middle name contains only one initial. If so display the validation corresponding name. The format is first, middle and last name with single space between all three names.   **(07 Marks)**

4 a. Explain absolute and relative positioning elements with example each. **(08 Marks)**
   b. Explain how to handle button elements along with example.   **(06 Marks)**
   c. Describe event handler Registration for DOM2 event model.   **(06 Marks)**

PART – B

5 a. What is DTD? Explain how to create elements, attributes and entities in DTD. **(10 Marks)**
   b. Create a DTD for a catalog of Cars, where each Car has the child elements : make, model, year, color, engine, no_of_doors, transmission type and accessories. The engine element has the child elements number_of_cylenders and fuel system. The accessories elements has the attributes : radio, air-conditioning, power windows, power steering and power brakes each of which is required and possible values Yes and No. Entities must be declared for the names of popular Car makes. Create a XML document to validate for this DTD.   **(06 Marks)**
   c. Give XSD attributes along with complex types.   **(04 Marks)**

6 a. What is Query String? Explain how Query string transmitting to the server with GET and POST method with example.   **(09 Marks)**
   b. Describe with examples, the various types of variables available in perl. **(06 Marks)**
   c. Mention pattern matching operation available in PERL, explain any one in detail. **(05 Marks)**

7   a.   With an example, explain how files are handled in PHP.   **(07 Marks)**
     b.   Explain any six string functions in PHP.   **(06 Marks)**
     c.   With a neat diagram, explain logical internal structure of array.   **(07 Marks)**

8   a.   With an example, explain built-in methods for arrays and lists in Ruby.   **(08 Marks)**
     b.   How the methods and variables of a class are defined in Ruby with simple example.
        (06 Marks)
     c.   With a neat diagram, explain the directory structures for the Rails application.   **(06 Marks)**

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