Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024
Programming the Web

Time: 3 hrs.   Max. Marks:100

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

PART – A

1   a. Describe HTTP response phase in detail with an example.   **(06 Marks)**
    b. Define the functionality of web server, describe its general characteristics.   **(06 Marks)**
    c. Explain the following tags with an example:
       i) < a >   ii) < img >   iii) < meta >   iv) < sup >   **(08 Marks)**

2   a. Write a XHTML document that displays a form containing following controls:
       i)   a text box to collect username
       ii)   four checkbones, one for each of the following:
             • four 100-W bulbs for $2.5
             • eight 100-W bulbs for $4.5
             • four 1000-W bulbs for $7.5
             • eight 100-W bulbs for $7.5.
       iii) a collection of three radio buttons labeled as visa, master and discover.   **(08 Marks)**
    b. Mention 3 levels of style sheets. Specify their precedence. Illustrate the syntax of all the three levels with suitable example.   **(08 Marks)**
    c. Explain < span > and < div > tags with example for each.   **(04 Marks)**

3   a. Write a XHTML document and Javascript for the following specifications:
       Input: A number n obtained using prompt.
       Output: The first n Fibonacci numbers using alert.   **(06 Marks)**
    b. Explain the syntax of creating arrays. Write a javascript program to illustrate the syntax of two-dimensional arrays.   **(06 Marks)**
    c. Explain built-in date object and all its methods with example.   **(08 Marks)**

4   a. Define DOM. Write a simple XHTM document containing a table with any data of your choice. Construct a corresponding DOM tree to illustrate the relationship between different elements of XHTML.   **(07 Marks)**
    b. Illustrate handling of events from button element with javascript.   **(07 Marks)**
    c. Explain the following with an example:
       i) Absolute positioning   ii) Dynamic content.   **(06 Marks)**

PART – B

5   a. Define DTD. Explain declaration of element, attributes and entities with suitable example.   **(10 Marks)**
    b. Illustrate how the disadvantages of DTD are overcome by XML schema. Give an example of XML schema with an appropriate XML document.   **(10 Marks)**

6 a. Explain built-in array and list functions in perl with example. **(07 Marks)**
  b. Write a perl program to keep track of number of visitors visiting the web page and to display this count of visitors, with proper headings. **(05 Marks)**
  c. Write a perl program and HTML document to insert name and age information entered by the user into a table created using MySQL and to display the current content of this table. **(08 Marks)**

7 a. Illustrate file handling functions provided by PHP. **(06 Marks)**
  b. Define session. Write a PHP script to explain about session trading. **(06 Marks)**
  c. Design a XHTML document with PHP to display a number, its square and square root using built in functions. **(08 Marks)**

8 a. Illustrate simple input and output in Ruby with an example. **(06 Marks)**
  b. Write a note on methods in Ruby. **(07 Marks)**
  c. Explain layouts with respect to rails. **(07 Marks)**

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