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10CS73

Seventh Semester B.E. Degree Examination, Dec.2015/Jan.2016

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 MIME? Explain its specifications. (04 Marks)
 - b. Write the General form of HTTP request and response. Explain. (08 Marks)
 - c. Illustrate with an example, each of the following XHTML tags
 - i) <pre>
 - ii) <blockquote>
 - iii) <a>
 - iv) <meta>
 (08 Marks)
- 2
 - a. Why are lists used on web pages? With an example, explain different types of lists available in XHTML. (06 Marks)
 - b. Explain with an example the concept of framesets and frames in building web pages (06 Marks)
 - c. What are selector forms? Explain with example different types of selector forms. (08 Marks)
- 3
 - a. With the help of an example, explain JavaScript's screen output and keyboard input methods. (08 Marks)
 - b. Explain the following objects available in JavaScript. List atleast 3 methods available with them.
 - i) Math object
 - ii) Number object
 - iii) Date object
 - iv) Array object.
 (08 Marks)
 - c. Write a JavaScript to read an email ID from the user using prompt and validate it. It should contain a '@' and '.' (dot) (04 Marks)
- 4
 - a. Discuss any two methods of Element Access in JavaScript. Give examples for both. (06 Marks)
 - b. With the help of an example, explain any one event associated with the following elements.
 - i) Body
 - ii) Button
 - iii) Textbox
 (06 Marks)
 - c. Explain different techniques to position elements in XHTML. What are the standard values for visibility property? How are they used? (08 Marks)

PART – B

- 5
 - a. What is DTD? What is the difference between External and Internal DTD's? Write the syntax and example for declaring elements, Attributes and Entities in a DTD. (08 Marks)
 - b. Illustrate with the help of a diagram the XSLT processing. (06 Marks)
 - c. Declare an XML document containing data of 3 Employee's (Emp_ID, Emp_Name, Emp_Desig, Emp_Age, Emp_Phone, Emp_Address) and display this XML data using CSS, with following rules:
 - Emp_ID in font-size 28 pts and color -- Red
 - Emp_Name and Emp_Desig in font size 18 pts and color – Blue
 - Emp_Age, Emp_Phone and Emp_Address in font size 15pt and color – Black. (06 Marks)

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- 6 a. Write a Perl program to read a number from standard input device and check if it is a prime number. Display appropriate messages. **(06 Marks)**
- b. How are Array's declared in Perl? Demonstrate the use of 'foreach' statement on perl Array's. **(06 Marks)**
- c. Write an XHTML and Perl program, the XHTML should define a form containing Book_AccNO, Book_Name, Book_Author, Book_Edn, and Book_Publish as textboxes and a submit and reset button. On submission to a Perl CGI, the Perl program should extract the book information and store it into the database in 'Book' table. Handle exceptions appropriately. **(08 Marks)**
- 7 a. Explain different functions available in php for handling files. Give examples for opening, closing, reading and writing to files. **(08 Marks)**
- b. What is session tracking in web pages? With the help of an example php program demonstrate how session can be used to track number of web pages visited in a session. **(08 Marks)**
- c. What is a Cookie? Why are they used? Which function is used in php to set a Cookie? Give an example and syntax. **(04 Marks)**
- 8 a. Explain keyboard input and screen output functions in Ruby. **(04 Marks)**
- b. Write a Ruby program to declare an array, store in it 10 elements of type integer. Use 'for – in' statement to sum the array elements and display the sum. **(06 Marks)**
- c. With a help of a diagram explain how rails responds to simple web requests. **(04 Marks)**
- d. Write a note on the concept of classes and inheritance in Ruby. **(06 Marks)**

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