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10CS73

**Seventh Semester B.E. Degree Examination, June/July 2023**  
**Programming the Web**

Time: 3 hrs.

Max. Marks: 100

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

**PART – A**

- 1 a. Give the general form of HTTP Request and Response phases. Explain in detail. (08 Marks)
- b. Discuss the following tags with examples:
  - i) < pre >    ii) < blackquote >    iii) < sup >    iv) < sub > (08 Marks)
- c. Explain the working of Domain Name Server. (04 Marks)
- 2 a. Explain the following attributes with respect to tables in XHTML:
  - i) rowspan    ii) colspan    iii) align    iv) valign (08 Marks)
- b. What are Selector Forms? Explain any 4 types of selector forms with example. (08 Marks)
- c. Create the following frameset in a web document using frameset and frame tags.

1.html	2.html
3.html	4.html

Note : Assume sizes of frames appropriately. (04 Marks)

- 3 a. Explain with the help of an example, Javascripts Screen Output and Keyboard (08 Marks)
- b. Write a javascript function to read a number 'n' using prompt, And display the first 'n' Fibonacci numbers. (06 Marks)
- c. Explain the following predefined character classes with respect to Regular Expressions in Javascript:
  - i) \d    ii) \D    iii) \w    iv) \W    v) \s    vi) \S (06 Marks)
- 4 a. Illustrate with the help of an examples, any 2 methods of Element Access in Javascript. (06 Marks)
- b. List and explain any one tag associated with the following events/attributes:
  - i) onblur    ii) onclick    iii) onfocus    iv) onland (08 Marks)
- c. How to control visibility of an Element in XHTML documents. Illustrate with an example. (06 Marks)

**PART – B**

- 5 a. Why is DTD used? Describe the method to declare Elements, Entities and Attributes in a DTD. (08 Marks)
- b. Explain the XSLT document processing technique with the help of a diagram. (06 Marks)
- c. Create a XML document for students, with tags for sname, usn, branch and sem for individual students. Display this data of XML using CSS.

sname with font size 16 pts & red color  
 usn with font size 15 pts & blue color  
 branch with font size 14 pts & green color  
 sem with font size 13 pts & brown color

(06 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.

- 6 a. Explain various types of variables in PERL? Give example for each type of variable. (06 Marks)
- b. Write a PERL program to declare an array with 10 elements (numbers). Calculate the average of the elements of the array using for each loop. (04 Marks)
- c. What are cookies? How to create and read cookies using CGI.pm module. Write a CGI program to display the last accessed data of a web page. (10 Marks)
- 7 a. Explain different techniques to create Array's in php. With the help of an example, explain following functions with respect to Array's in php:  
i) Size of    ii) explode    iii) implode (08 Marks)
- b. Write a php program to extract form data containing EID, Ename, ESalary and Equal and save it to a database table named Employee. (08 Marks)
- c. What is session tracking? How session variables are declared and accessed in php. (04 Marks)
- 8 a. Write a Ruby class named Maths, with methods add( ), subtract( ) and multiply( ) which adds, subtracts and multiplies its 2 parameters respectively. (06 Marks)
- b. Explain Ruby's keyboard input and screen output functions. (04 Marks)
- c. Explain the steps to deploy a simple static document in rails. Draw the directly structure of a Rails application. (10 Marks)

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