USN ☐☐☐☐☐☐☐☐☐☐

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)

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( ), substract( ) and multiply( ) which adds, substracts 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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