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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