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10CS73

Seventh Semester B.E. Degree Examination, July/August 2022

Programming the Web

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. What is HTTP protocol? Explain the Request and Response phase of HTTP in detail, with examples. (10 Marks)
- b. Explain the following XHTML tags with examples:
 (i) <p> (ii) <pre> (iii) <h1>...<h6> (iv) (v) <a> (10 Marks)
- 2 a. Explain the different attributes applicable to <table> <tr> and <td> tags. (06 Marks)
- b. Explain the different levels of style sheets available in CSS with examples. (06 Marks)
- c. Describe the different font properties in CSS along with values for it. (06 Marks)
- d. Draw the Box model of CSS. (02 Marks)
- 3 a. Explain the string methods and properties in javascript. (05 Marks)
- b. Write a javascript to print current date in dd/mm/yyyy format. (05 Marks)
- c. Write a javascript program to find and print the median of a list of positive numbers. (10 Marks)
- 4 a. Write a XHTML and a javascript program to validate passwords. (Assume a form with option to enter initial and confirmation passwords. Report empty and non-matching passwords) (10 Marks)
- b. Write a XHTML and javascript program to move an image anywhere on the screen by positioning x and y coordinates of the top-left corner of the image. (10 Marks)

PART – B

- 5 a. What is DTD? Explain about the elements, attributes and entities in a DTD. (08 Marks)
- b. Design an example program to display an XML document using XSL Transformation. (12 Marks)
- 6 a. Write a perl program to read a file containing person's names, convert the names to uppercase and print it in alphabetical order. (05 Marks)
- b. Explain the fundamentals of Hashes in perl. (05 Marks)
- c. Write a perl program to find and print the frequency of occurrence of the words in a paragraph. (Assume words are separated by single blank or punctuation symbol (: , ; . ?)) (10 Marks)
- 7 a. Describe array creation in PHP. List and explain any 6 functions for dealing with arrays in PHP. (10 Marks)
- b. Design a form using XHTML, with 2 Textboxes to read 2 numbers and a group of 4 radio buttons to specify (+, -, /, x). On submit perform the respective operation on the 2 operands and print the result on the screen. (Write separate XHTML and PHP tiles) (10 Marks)
- 8 Write short notes on the following Ruby concepts:
 - a. Arrays
 - b. Code blocks and iterators
 - c. Pattern matching
 - d. Rails application with Databases
 (20 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.