



Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024
Programming the Web

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Describe HTTP response phase in detail with an example. (06 Marks)
 b. Define the functionality of web server, describe its general characteristics. (06 Marks)
 c. Explain the following tags with an example:
 i) < a > ii) < img > iii) < meta > iv) < sup > (08 Marks)

- 2 a. Write a XHTML document that displays a form containing following controls:
 i) a text box to collect username
 ii) four checkboxes, one for each of the following:
 - four 100-W bulbs for \$2.5
 - eight 100-W bulbs for \$4.5
 - four 1000-W bulbs for \$7.5
 - eight 100-W bulbs for \$7.5.
 iii) a collection of three radio buttons labeled as visa, master and discover. (08 Marks)
 b. Mention 3 levels of style sheets. Specify their precedence. Illustrate the syntax of all the three levels with suitable example. (08 Marks)
 c. Explain < span > and < div > tags with example for each. (04 Marks)

- 3 a. Write a XHTML document and Javascript for the following specifications:
 Input: A number n obtained using prompt.
 Output: The first n Fibonacci numbers using alert. (06 Marks)
 b. Explain the syntax of creating arrays. Write a javascript program to illustrate the syntax of two-dimensional arrays. (06 Marks)
 c. Explain built-in date object and all its methods with example. (08 Marks)

- 4 a. Define DOM. Write a simple XHTML document containing a table with any data of your choice. Construct a corresponding DOM tree to illustrate the relationship between different elements of XHTML. (07 Marks)
 b. Illustrate handling of events from button element with javascript. (07 Marks)
 c. Explain the following with an example:
 i) Absolute positioning ii) Dynamic content. (06 Marks)

PART – B

- 5 a. Define DTD. Explain declaration of element, attributes and entities with suitable example. (10 Marks)
 b. Illustrate how the disadvantages of DTD are overcome by XML schema. Give an example of XML schema with an appropriate XML document. (10 Marks)

- 6 a. Explain built-in array and list functions in perl with example. (07 Marks)
b. Write a perl program to keep track of number of visitors visiting the web page and to display this count of visitors, with proper headings. (05 Marks)
c. Write a perl program and HTML document to insert name and age information entered by the user into a table created using MySQL and to display the current content of this table. (08 Marks)
- 7 a. Illustrate file handling functions provided by PHP. (06 Marks)
b. Define session. Write a PHP script to explain about session trading. (06 Marks)
c. Design a XHTML document with PHP to display a number, its square and square root using built in functions. (08 Marks)
- 8 a. Illustrate simple input and output in Ruby with an example. (06 Marks)
b. Write a note on methods in Ruby. (07 Marks)
c. Explain layouts with respect to rails. (07 Marks)

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