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10CS73

**Seventh Semester B.E. Degree Examination, Jan./Feb. 2023**  
**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. What is HTTP? Explain the response phase of hyper text transport protocol. (05 Marks)  
b. Give syntax and example for each  
i) `<blockquote>` ii) `<pre>` iii) `<img>` (06 Marks)  
c. Bring out the differences between HTML and XHTML. (04 Marks)  
d. What tag and attribute used to describe a link? Discuss with example. (05 Marks)
- 2 a. Write an XHTML document to describe an ordered list of A textbooks of this semester. Each element of the list must have an unordered lists of atleast 3 chapters (units) of each text book. (05 Marks)  
b. Explain the syntax and example for each of the types of selector forms. (10 Marks)  
c. Create XHTML document that has two frames. The left frame displays contents.html and the right frame displays cars.html. Where the second frame is target of link from the first frame [Note: The car description should displays in contents.html]. (05 Marks)
- 3 a. Explain with examples, the screen output and keyboard input methods. (05 Marks)  
b. Explain the concept of object creation and modification is Java script. (05 Marks)  
c. Write XHTML document that includes Java script that uses functions for the following problems:  
i) The position in the string of the left-most vowel.  
ii) A table of numbers from 1 to n and their squares using alert. (10 Marks)
- 4 a. Describe the approaches to addressing XHTML elements using body elements. (05 Marks)  
b. Explain the following with an example each:  
i) Absolute positioning  
ii) Element visibility. (05 Marks)  
c. Write an XHTML document that contains 3 short paragraphs of text, stacked on top of each other with only enough of each sharing, so that mouse cursor can always be placed over some part of them. Write Java script code so that when cursor is placed over the exposed part of any paragraph it should rise to the top to become completely visible. (10 Marks)

**PART - B**

- 5 a. What is document type definition? Describe the approaches to declare element entities and attributes. (10 Marks)  
b. With an example, explain how an XSLT processor uses an XSLT style sheet with an XML document. (05 Marks)  
c. Explain the purposes of XML processor. (05 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. Describe the CGI.Pm module in Perl. (05 Marks)  
b. Explain how files handled in Perl. (05 Marks)  
c. Write a Perl program to display the following:  
i) Server information like server name, server software, server protocol, CGI revision etc.  
ii) To keep track of the number of visitors visiting the webpage and to display this count of visitors with proper heading. (10 Marks)
- 7 a. Give some commonly used string functions in PHP. (05 Marks)  
b. Write an XHTML document to handle the form in PHP. (10 Marks)  
c. Write a PHP program to store page views count in session to increment the count on each refresh and to show the count on web page. (05 Marks)
- 8 a. Explain the scalar types and their operations in ruby. (07 Marks)  
b. Write a ruby document for basics of pattern matching i.e. the right operand pattern is matched against left operand string. (07 Marks)  
c. Write a rail document display the time class methods. These methods can also be used to display the number of seconds since midnight. (06 Marks)

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