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15CS71

Seventh Semester B.E. Degree Examination, Jan./Feb. 2023
Web Technology and Its Applications

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1   a. Explain structure of HTML document with an example. **(05 Marks)**
    b. Design an HTML document that has six short paragraphs of text. Define three different paragraph styles P1, P2 and P3. The P1 style must use Left and Right margins of 20 pixels, a background colour of yellow and a foreground colour of blue. The P2 style must use font size of 18 points, font name 'Arial' and a font style in italic form. The P3 style must use a text indent of 1 inch, a background colour of green, and a foreground colour of white. The 1st and the 4th paragraph must use P1, the 2nd and 5th must use P2 and the 3rd and 6th must use P3. **(05 Marks)**
    c. Illustrate the different ways to construct link destination. **(06 Marks)**

OR

2   a. Explain commonly used Text Properties and Font Properties in CSS. **(05 Marks)**
    b. Explain common Text-Level Semantic Elements used in HTML. **(05 Marks)**
    c. With a HTML code, illustrate ID selector, Pseudo-class selectors and Contextual selectors. **(06 Marks)**

Module-2

3   a. Write a HTML program to create a table with two levels of column label: An overall label, meals and three secondary lables, breakfast, lunch and dinner. There must be a two levels of row labels: an overall label, foods and four secondary labels, bread main course, vegetable and dessert. The cells of the table must contain a number of grams for each category of the food. **(05 Marks)**
    b. Illustrate float, clear and display properties with example. **(05 Marks)**
    c. Explain <form> element and its attributes. Also illustrate difference between get and post methods with a neat diagram. **(06 Marks)**

OR

4   a. With a suitable code illustrate positioning elements. **(05 Marks)**
    b. Illustrate HTML text input controls and choice controls. **(05 Marks)**
    c. With a suitable example, illustrate four key components that make responsive design work. **(06 Marks)**

Module-3

5   a. With an example illustrate Javascript objects constructors, properties and methods. **(05 Marks)**
    b. Illustrate document object methods and element node properties. **(05 Marks)**
    c. Explain pass by value and pass by reference in PHP function with example. **(06 Marks)**

OR

6 a. Write a PHP program to find the largest of three numbers using if else control statement and also illustrate different comment lines available in PHP. **(06 Marks)**

b. Illustrate JavaScript string object and Math object with suitable code. **(04 Marks)**

c. Illustrate Mouse Events, Keyboard Events and Form Events in JavaScript. **(06 Marks)**

Module-4

7 a. Describe how to Define, Access, Add and Delete an array element in PHP. **(05 Marks)**

b. Write PHP function that reads content from one file and writes to another file. **(05 Marks)**

c. Explain keys of $-Files array and write a function to move file from tmp_name location to user defined location. **(06 Marks)**

OR

8 a. Explain how to define a class, properties of a class and methods of a class in PHP. **(05 Marks)**

b. Explain Error and Exception handling in PHP. **(05 Marks)**

c. Explain mySQL Accessing and Fetch functions in PHP. **(06 Marks)**

Module-5

9 a. Illustrate passing information via query string and passing information via URL path. **(05 Marks)**

b. Write a PHP program to store page views count in SESSION, to increment the count on each refresh, to show count on webpage, to store current data-time in a COOKIE and display the 'Last visited on' data-time on the webpage upon reopening of the same page. **(05 Marks)**

c. Explain jQuery form selectors with suitable description. **(06 Marks)**

OR

10 a. Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, Name of the college, Branch, Year of joining and emailId. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document. Display each student in a block and background colour should be different. **(05 Marks)**

b. Explain how to make Asynchronous Requests in jQuery. **(05 Marks)**

c. Explain jQuery Basic selectors and Attribute selector with suitable examples. **(06 Marks)**

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