B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

May 2023 Semester End Main Examinations

Programme: B.E.   **Semester: I**
Branch: Common to all Branches   **Duration: 3 hrs.**
Course Code: 22CS1ESWEB   **Max Marks: 100**
Course: Introduction to Web Programming   **Date: 08.05.2023**

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

UNIT - I

1 a) Give the difference between Internet and WWW.   **4**

   b) Analyze the following user requirement and provide correct and single working.   **10**

   HTML code

   SUBJECTS AND THEIR CONCEPTS

   1. Data Structures in C
      1. Pointer
      2. Stack
      3. Queue

   2. Microprocessor
      1. Addressing Modes
      2. 8086 Instruction Set
      3. Interrupts

   3. C++
      1. Inheritance
      2. Templates
      3. Exception Handling

   c) Give the key difference between HTML Elements and Tags.   **6**

UNIT - II

2 a) With an example show how to create a Hyperlink in HTML.   **6**

b) Create, HTML document that has a form with the following controls: **8**
1. A text box to collect the user's name
2. Four checkboxes, one each for the following items:
Four 100-watt light bulbs for $2.39

Eight 100-watt light bulbs for $4.29

Four 100-watt, long-life light bulbs for $3.95

Eight 100-watt, long-life light bulbs for $7.49

3. A collection of three radio buttons that are labelled as follows:

☐ Visa

☐ MasterCard

☐ Discover

c) Design a HTML Table considering the design shown below **6**

Population Survey

CI		All Genders	By Gender	
			Males	Females
			9215604	4512358
Rural	6521458	4215389	4152348	

UNIT - III

3 a) Illustrate the following CSS tags with an example for each. **10**

     i)   Class Selectors

     ii)   Pseudo Classes

     iii)   Background images

     iv)   Text decoration

     v)   Alignment of text.

b) Create a HTML document that includes at least two images and enough text to **10** precede the images, flow around them (one on the left and one on the right) and continue after the last image.

OR

4 a) Create and test an HTML document that has six short paragraphs of text that **10** describe various aspects of the state in which you live. You must define three different paragraph styles p1, p2 and p3. The p1 style must use left and right margins of 20 pixels, a background color of pink, and a foreground color of blue. The p2 style must use left and right margins of 30 pixels, a background color of black, and a foreground color of yellow. The p3 style must use a text indent of 1 centimeter, a background color of green, and a foreground color of white. The first and fourth paragraph must use p1, the second and fifth must use p2, and the third and sixth must use p3.

	b)	Illustrate the usage of class, id, Generic and Universal Selector forms with an example for each.	**10**

UNIT - IV

5	a)	Write a JavaScript to accept three numbers, using the prompt method. Find and display the largest of three using the alert method.	**6**
	b)	Illustrate how implicit and explicit type conversions are done by JavaScript Interpreter.	**6**
	c)	Write a JavaScript program to perform the following array operations.	**8**

   i) Adding elements to beginning of an array.

   ii) Removing array members.

OR

6	a)	Show the usage of string manipulation functions.	**4**

   i)   CharAt()   ii) indexOf( )   iii) Split( )   iv) Substr().

	b)	Write HTML files and JavaScript scripts for A table of numbers from 5 to 15 and their squares and cubes.	**10**
	c)	Illustrate the following with examples.	**6**

   i) Array object   ii) Pattern matching methods of strings

UNIT - V

7	a)	Write a JavaScript program to validate Username as Guest and Password as Welcome.	**10**
	b)	Write a JavaScript function which accepts an array of names, represented as Strings and returns number of names in the given array that end with either 'ie' or 'y'.	**10**

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