



R V College of Engineering
Department of Computer Science and Engineering
CIE - I: Question Paper

Subject :
(Code)

Introduction to Web Programming
(22PL15B/25B)

Semester : 2nd BE

Date : 21/11/2023

Duration : 90 minutes

Staff : Dr. Pratiba D

Name :

USN :

Section :

PART-A

1.

Design an XHTML code for constructing a following table to illustrate table handling in a web page. Properly align cells, give suitable cell padding and cell spacing, and apply bold and emphasis necessary.

M BT Co

10 L2 2

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width = 7

SAMPLE MENU TIMETABLE

Day 1	Timings	Items
	9.00-11.00	✓ Idly ✓ Dosa ✓ Pongal
	11.00-11.30	✓ Tea Break
	5.00-6.00	✓ Snacks
	8.00-9.00	✓ Dinner
Day 2	9.00-11.00	Breakfast
	2.30-3.30	Break
		Lunch

2.

Create a web site using HTML for an online super market. Your website should have a home page which helps the user to navigate to various other pages. Every web page in the website give a detailed description of different items present in the super market and must be stored in separate documents that are accessible through links from the home document. Make a website user friendly by adding relevant images and other options. The last web page should present a feedback form for the customer.

10 L3 2

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3a.

Design a web page with the following requirements:
▪ The webpage should have two frames in one column. Two frames of size 45 percent and 55 percent.
▪ One frame should have at least four links and another frame will display those documents .
▪ The links must be names of vehicles; the documents must be at least one-line description of the vehicles.

6 L2 2

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3b.

What is the purpose of an External style sheet in CSS? Give an example.

4 L1 1

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4a.

Create an XHTML document to create a list of items with the following contents.

4. STATE1
o AA
o BB
3. STATE2
I) CC
II) DD
2. STATE3
• , EE
• , FF

4 L1 1

4

23/11/23


	1.STATE4 a. GG b. HH			
4b.	Explain the concept of HTTP Request and HTTP Response phase with an example structure for each.	6	L1	1
9	Design a HTML Form to collect information from school students appearing for an essay competition. Use appropriate XHTML code wherever applicable. (Check for syntax and appropriateness) (3X5=15) 1. Collect Name, StudentID, School Name , Class studying in and Age through text box. 2. Collect School Address and Home address using textarea. 3. Using appropriate HTML Elements , collect Parent Name and Contact Information. 4. Gender (Male/Female) and Currently enrolled in competition (Yes/No) to be collected through radio buttons. 5. Use drop down to select Preferred online platform (Google meet, Cisco WebEx, Zoom, Microsoft Teams etc). 6. Use checkbox to allow student to check the probable areas that the essay he is interested to participate in.(Environment, Politics, History, Finance etc).	10	L2	2

CO1	Understand the basic syntax and semantics of HTML/XHTML
CO2	Apply HTML/XHTML tags for designing static web pages and forms using Cascading Style Sheet.
CO3	Develop Client-Side Scripts using JavaScript.
CO4	Demonstrate web-based applications with database.

	L1	L2	L3	L4	L5	L6	CO1	CO2	CO3	CO4
Total Marks	14	26	10	-	-	-	14	36	-	-

- Type of ~~eng~~ ~~combustion~~ cyl → Otto, diesel.
- Fuel used → petrol, diesel, gas
- No. of cylinder → single, multi
- No. of stroke → 2, 4
- Ignition type → spark, compression
- Nos. of cylinder → —, 1, 2, 4, 6, 8, 10, 12, 16, 20, 24, 32, 40, 48, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400, 420, 440, 460, 480, 500, 520, 540, 560, 580, 600, 620, 640, 660, 680, 700, 720, 740, 760, 780, 800, 820, 840, 860, 880, 900, 920, 940, 960, 980, 1000
- Method of cooling → Air, Water

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		R V College of Engineering Department of Computer Science and Engineering CIE - II: Question Paper		
Subject : (Code)		Introduction to Web Programming (CS115AI)		Semester : 1st BE
Date : 28/12/2023		Duration : 90 minutes		Staff : Dr. Pratiba D
Name :		USN :		Section :
PART-A				
1.	Explain the following selector forms with an example for each.	M	BT	Co
	a. Simple Selector b. Class Selector c. Generic Selector d. Id Selector	10	L1	2
2a.	Create a web page by writing an HTML document that has an image with the following properties: <ul style="list-style-type: none"> Only one copy of the image should be included. The horizontal alignment should be left and vertical alignment should be center. Background color of the web page should be pink. All the border style, width and color should be different for all the sides of a border. 	6	L2	2
2b.	Design a web page with a banner text "mylonglongname" on it. Each character of the banner text will have a different size. First character starts with a font size of 1. Next characters will have sizes 2 to 7. When you reach 8th character, use the size 7 again and then decrease the size until you reach the last character (which will again have font size of 1).	4	L2	2
3.	Write a program to make a simple calculator to perform the arithmetic operations (Addition, Subtraction, Multiplication and Division) in JavaScript. I) Simple Calculator using else if ladder II) Simple Calculator using switch statement Note: The user is prompted to enter an operator (either +, -, * or /) and two numbers.	10	L3	3
4a.	What is the purpose of <i>Date</i> object in JavaScript? List and explain any 5 methods that retrieve information from the Date object with an example for each.	5	L1	3
4b.	Write a JavaScript program to input a string using prompt() method and convert that into uppercase. [Use string object method]	5	L2	3
5.	Write the XHTML code to achieve the below output with correct styling. Write code to achieve the below output with correct styling.	10	L4	2

to upper

to upper

text-align: left ; background-color: yellow ; border: 1px solid black ;

RV College of Engineering

RVCE Contact

Welcome to the page

Web Programming Elective C

CIE

Note: "RV College of Engineering" has yellow background. "RVCE Contact" is in italics. "Web Programming" and "Elective C" is in red colour.

CO1	Understand the basic syntax and semantics of HTML/XHTML
CO2	Apply HTML/XHTML tags for designing static web pages and forms using Cascading Style Sheet.
CO3	Develop Client-Side Scripts using JavaScript.
CO4	Demonstrate web-based applications with database.

	L1	L2	L3	L4	L5	L6	CO1	CO2	CO3	CO4
Total Marks	15	15	10	10	-	-	-	30	20	-



R V College of Engineering
Department of Computer Science and Engineering
CIE - III: Improvement Test

Subject : (Code)		Introduction to Web Programming (CS115AI)		Semester : 1st BE			
Date :24/1/2024		Duration : 90 minutes		Staff : Dr.Pratiba D			
Name :		USN :		Section :			
PART-A				M	BT	Co	
1	Write a JavaScript program for the following operations. I) Print a number and its square in table format using <u>while loop</u> 1 1 2 4 3 9 4 16 II) Print the odd and even numbers from 1 to 10 using for loop.				10	L2	3
2	How will you create an Array in JavaScript. With an example, explain the following array methods to perform different operations. i) push() ii) pop() iii) shift() iv)unshift() v) concat() <i>And v remove add</i>				10	L2	3
3a.	Write a JavaScript program to count the number of vowels in your name. Note: The user is prompted to enter the name. Use the concept of functions in JavaScript.				6	L3	3
3b.	Write a JavaScript program to input a string using <u>prompt()</u> method and illustrate the following functions with an example for each I) charAt() II) substring() <i>way to initialize prop in an object</i>				4	L1	3
4a.	Define <u>Constructors</u> in JavaScript. Write a program to create an Employee object with the properties namely EmpName, EmpNo, EmpAge & EmpSal and initialize the values for data properties. Display the details of Employee object by initializing the <u>display method</u> .				5	L1	3
4b.	Design an XHTML document with a JavaScript code that contains a function called valid_phoneno which tests the phone number of the format ddd-ddd-dddd and displays whether the given phone no is valid or not using alert method.				5	L3	3
5	Write a JavaScript code to validate the name by considering the details given below: <i>Himanshu P Perumalla</i> The name should be entered using prompt. The first name and last name should not be more than 15 characters and middle name must be an initial single letter. Display the message about the validation or invalidation of corresponding name. The name should be entered in following format: First_Name Middle_initial Last_name (There should be single white space between First_Name, Middle_initial and Last_name)				10	L4	4

lov

```
temp = a.match(/[aeiou]/)
if (temp != null)
    i = i + 1
else
```

USN

RV COLLEGE OF ENGINEERING®

(An Autonomous Institution affiliated to VTU)

I / II Semester B. E. Regular / Supplementary Examinations Feb-2024

Common to all programs

INTRODUCTION TO WEB PROGRAMMING

Maximum Marks: 100

Time: 03 Hours

Instructions to candidates:

1. Answer all questions from Part A. Part A questions should be answered in first three pages of the answer book only.
2. Answer SIX full questions from Part B. In Part B question numbers 2 and 11 are compulsory. Answer any one full question from 3 and 4, 5 and 6, 7 and 8 & 9 and 10. Question number 11 is lab component (compulsory).

PART-A

1	1.1	Define the following : a) Web b) Internet	02 01
	1.2	What is meant by an empty tag in <i>HTML</i> ?	01
	1.3	What are the different types of headings in <i>HTML</i> ?	02
	1.4	Mention some advantages of JavaScript.	
	1.5	Write the output of the following: JavaScript code: <pre><script type = "text/javascript" > var a = 1; var b = 0; while(a <= 3) { a++ b+= a * 2 print(b); } </script ></pre>	01 01
	1.6	How do you insert an image in <i>HTML</i> ?	01
	1.7	How do you write a comment in JavaScript?	01
	1.8	Define Schema and Instance with respect to database.	

PART-B

2	a b	With a neat diagram, explain the basic structure of a <i>DNS</i> server. Explain the following: i) <i>URL</i> ii) Web Browser iii) Web server.	07 07
3	a	With a suitable code snippet, explain the "Text formatting tags" in <i>HTML</i> .	07

b	With a suitable code snippet explain, which <i>HTML</i> tags are used while displaying the data in the tabular form?	07
OR		
4 a	<p>Design a web page using forms in <i>HTML</i> to demonstrate the following:</p> <div style="text-align: center;"> <p>FIRST FORM:</p> <p>First name: <input type="text"/></p> <p>Last name: <input type="text"/></p> <p><input type="button" value="SUBMIT"/> <input type="button" value="RESET"/></p> </div>	07
b	Demonstrate lists in <i>HTML</i> . Give examples to implement various types of lists in <i>HTML</i> .	07
OR		
5 a	Explain in detail about different types of selectors in <i>CSS</i> with example.	07
b	With example code, list the difference between <code><div></code> and <code></code> tag in <i>HTML</i> .	07
OR		
6 a	List and explain the levels of style sheets in <i>CSS</i> with an example code snippet.	07
b	With a neat diagram, explain the difference between margin and padding.	07
OR		
7 a	With a sample code snippet, discuss the different types of conditional statements in Java script.	07
b	<p>Write a Javascript program to construct the following pattern, using a nested for loop.</p> <pre> * * * * * * * * * * * * * * *</pre>	07
OR		
8 a	With a sample code snippet, discuss the different types of Iterative statements or looping statements in JavaScript.	07
b	Write a JavaScript with conditional statement to find the largest of five numbers. Display an alert box to show the results.	07
9 a	Define relational database management system. Discuss the key features, merits and demerits of a database relational management system.	07

b	<p>Create a database with the name employee to perform the following activities:</p> <ol style="list-style-type: none"> Create table with name Employee details including the following fields. Emp_id, emp_name, emp_designation and emp_age. Inserting data into the table. Query to find an employee whose name is not XXXXX Query to find the employee whose designation is not General Manager and not store manager. <p style="text-align: center;">OR</p>	07
10 a	<p>Explain the following :</p> <ol style="list-style-type: none"> SQL Key Features of SQL. 	07
b	<p>Create a table with the name Person including the following fields PersonID, Lastname, Firstname, Address and city to perform the following activities.</p> <ol style="list-style-type: none"> DROP TABLE TRUNCATE TABLE statement ALTER table To delete a column in a table To rename a column in a table To change the data type of a column in a table. 	07

LAB COMPONENT

11	a	Write an <i>XHTML</i> code snippet to demonstrate the use of the following: i) Radio Button ii) Check box.	10											
	b	Write a JavaScript program that computes the average marks of the following students. Then this average is used to determine the corresponding grade. <table><tr><td><i>Student name</i></td><td><i>Marks</i></td></tr><tr><td>David</td><td>80</td></tr><tr><td>Vinoth</td><td>77</td></tr><tr><td>Divya</td><td>88</td></tr><tr><td>Ishita</td><td>95</td></tr><tr><td>Thomas</td><td>68</td></tr></table> The grades are computed as follows: Range grade: < 60 F ≥ 60 and < 70 D ≥ 70 and < 80 C ≥ 80 and < 90 B ≥ 90 and < 100 A		<i>Student name</i>	<i>Marks</i>	David	80	Vinoth	77	Divya	88	Ishita	95	Thomas
<i>Student name</i>	<i>Marks</i>													
David	80													
Vinoth	77													
Divya	88													
Ishita	95													
Thomas	68													