## RV COLLEGE OF ENGINEERING®

(An Autonomous Institution affiliated to VTU) I Semester B. E. Examinations May-2023

### Common to all programs

# INTRODUCTION TO WEB PROGRAMMING (ELECTIVE)

Time: 03 Hours Maximum Marks: 100
Instructions to candidates:

 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.

### PART-A

1	1.1	Which method does not support transparency for representing images?	01
	1.2	protocol is used to transmit information on the world wide web.	01
	1.3 1.4	Discuss the usage of rowspan and colspan attribute.	02
	1.4	Write the output of the following: JavaScript Code:	01
		<pre>&lt; script type = "text/javascript" &gt;   var a = 8 + "hello";   var b = 10 + "10";</pre>	
		document.write(a); document.write(b);	
	•1.5	List any two applications of Javascript.	01
	1.6	State the purpose of External Style sheet.	01
	1.7	In what order must property values appear in the list of a shorthand font property?	01
	1.8	Discuss the purpose of text-indent property.	01
	29	What are the types of lists available in HTML?	01

#### PART-B

2 (a)	Define URL. Explain all parts of a URL.  For the URL: <a href="https://mars.jpl.nasa.gov/msl/images/PIA16082_Mitrofanov1F-thm.jpg">https://mars.jpl.nasa.gov/msl/images/PIA16082_Mitrofanov1F-thm.jpg</a> ,  What does each of the following mean? <a href="https://marsjpl.nasa.gov">https://marsjpl.nasa.gov</a> , msl/images, PIA16082_Mitrofanov1F-thm.jpg  With an example, describe the general format of HTTP Response.	07 07
3 1	Discuss the basic table structure in XHTML along with the important table tags.  Demonstrate lists in XHTML. Give examples to implement various types of lists.  OR	04

4	a	a Define form in XHTML. List the major attributes of the formula Summarize any six form components with examples.							es of the form	10
	b Compare and contrast HTML and XHTML.								04	
5	b	i) Si ii) Cl iii) G iv) ID v) U	mple lass S eneric Selection nivers	Selector selector Selector ctor sal Selector	tor Conflict	resol	utio		for each:	10
						or				
6.	a	Describe different levels of CSS with relevant examples.  Design an XHTML page to demonstrate wrapping of text around an image. The image should be placed right.							10 04	
Illustrate keyboard input and screen output in JavaScriexamples.  Design a javascript code to find sum of N natural number user defined function.  OR									06	
8	a b	Design a javascript code to find largest and smallest element in an array of numbers.  Define DBMS. Discuss Relational Database Management System with examples.  Consider tables Table 1: Employee Details and Table 2: Employee Salary.							07	
9	a b									04
		Table 1: Employee Details  Empld FullName ManagerId DateOffoining					City			
		121	2000	n Snow	321		0	1/31/2019	Toronto	
		321	Walt	er White	986	986		1/30/2020	California	
		421	Kuld	eep Rana	876		2	27/11/2021	New Delhi	
				Ta	ble 2: Em	olove	e Sa	ılary	7	
		Empld Project Salary Variable								
				121	P1	800	0	500		
				321	P2	100	_	1000		
		i) Remove a record from Employee Details table ii) Drop Employee salary table from the database. iii) Find the information of employees whose salary is greater than								
		8000.  iv) List the details of employees who is working on the project P1.  OR							10	

10 a	Explain the three schema architecture in Database Management System.  Consider tables Table 1: Employee Details and Table 2: Employee Salary (From Q.No 9b)  i) Write an SQL query to fetch those employees who live in Toronto and work under the manager with Managerld-321.  ii) Write an SQL query to find the employee id whose salary lies in the range of 9000 and 15000.  iii) Write an SQL query to find the maximum, minimum, and average salary of the employees.  iv) Write an SQL query to fetch the EmpId and FullName of all the employees working under the manager with id -'986'.  v) Write an SQL query to fetch the different projects available from the EmployeeSalary table.	04			
11 2	Explain pattern matching. Discuss various methods used in pattern matching? Design an <i>XHTML</i> document with a JavaScript code that contains a function called test $USN$ which tests the University Seat Number of the format: $[1-4][A-Z][A-Z]22[A-Z][A-Z][0-9][0-9][0-9].$ Illustrate selection and looping statements in JavaScript with syntax. Design an $XHTML$ document with a JavaScript code to create a simple multiplication table by reading the number of rows and columns from the user.				

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