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| **VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY, MADURAI – 625 009** |
| **Department of Computer Science and Engineering** |
| ***INTERNAL ASSESSMENT - I*** |

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| **Branch** | CSE | **Year/Sem./Sec.** | II/IV/A,B&C |
| **Course Code** | **21CS209** | **Date** | 28-02-2024 |
| **Course Name** | **MATRICES AND CALCULUS** | **Max. marks** | 50 |
| **Course Incharge** | Mrs.S.PadmaDevi , Ms.J.ShanthalakshmiRevathy,Mrs. C.Swedheetha | **Time** | 01:30 Hours |

PART A

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| **Sl.No** | **QUESTION** | **K** | **CO** | **Marks** |
| 1 | List any five features of HTML5. | K1 | CO1 | 2 |
| 1 | Explain the html tags to play audio and video files in web browsers. | K2 | CO1 | 2 |
| 1 | How to use an image as a hyperlink in HTML code? | K2 | CO1 | 2 |
| 2 | Summarize the HTML tags and elements the same thing? | K1 | CO1 | 2 |
| 2 | How Cell Padding differs from Cell Spacing? | K1 | CO1 | 2 |
| 2 | What is the need of using forms in HTML? | K1 | CO1 | 2 |
| 3 | What is a DOCTYPE declaration? | K1 | CO1 | 2 |
| 3 | How is an unrecognized element or attribute treated by the HTML document? | K1 | CO1 | 2 |
| 3 | How to specify the link in HTML and explain the target attribute. | K1 | CO1 | 2 |
| 4 | How are external style sheets useful in web page design? | K1 | CO1 | 2 |
| 4 | What is relative URL and absolute URL. | K1 | CO1 | 2 |
| 4 | What are the commonly used pseudo classes? | K1 | CO1 | 2 |
| 5 | Demonstrate how you will apply shadow property to a text? | K2 | CO1 | 2 |
| 5 | Summarize the ways of positioning an element within a browser window. | K2 | CO1 | 2 |
| 5 | Outline the CSS rule to add a transition effect for both width and height property of a square | K2 | CO1 | 2 |
| 6 | Infer @keyframe rule of CSS3 animation. | K2 | CO1 | 2 |
| 6 | Outline a CSS rule which increases paragraph element to three times of original width and two times of original height. | K2 | CO1 | 2 |
| 6 | Outline a CSS rule to embed an image as a border for the content “INTERNET PROGRAMMING”. | K2 | CO1 | 2 |
| 7 | Explain how java script differs from java | K2 | CO2 | 2 |
| 7 | Summarize the methods that can be used in the document and Window | K2 | CO2 | 2 |
| 7 | Outline the JavaScript code to print “Good Day” using IF-ELSE condition | K2 | CO2 | 2 |
| 8 | Demonstrate a java script program when a mouse moves over the image, the image have to be changed | K2 | CO2 | 2 |
| 8 | Write a javascript program to get the extension of a filename | K2 | CO2 | 2 |
| 8 | Outline a style rule when a mouse move over a paragraph its background colorhas to be changed to yellow | K2 | CO2 | 2 |
| 9 | What are the commonly used pseudo classes? | K1 | CO1 | 2 |
| 9 | Explain how java script differs from java | K2 | CO2 | 2 |
| 9 | What is the need of using forms in HTML? | K1 | CO1 | 2 |

PART B

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| **Sl.No** | **QUESTION** | **K** | **CO** | **Marks** |
| 10 | (i)Two random variable X and Y have the joint density  **Compute** Cov(X,Y)  (ii) A coin is tossed 10 times, **Determine** the probability of getting 3 or 4 or 5 heads. Use Central Limit Theorem | K2 | CO1 | 13 |
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| 11 | (i) Let (X,Y) be a continuous 2D RV with JPDF f(x, y) = ,  0<x<1, 0<y<1.**Compute** the covariance between x and y.  (ii) **Compute** the correlation coefficient for the following heights (in inches) of fathers X and their sons Y.  X: 65 66 67 67 68 69 70 72  Y: 67 68 65 68 72 72 69 71 | K2 | CO2 | 13 |
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