

UNIT-1

1.

a) List and explain the differences between old HTML and HTML5. CO1 (6)

b) What is the purpose of using whitespace collapsing. Justify. CO1 (4)

c) Explain the following with an example.

a) Blockquote Element

b) cite Attribute

c) Block Formatting

d) q Element

e) abbr Element CO1 (10)

2.a) Create a body container making use of the following tags: hr, p, br, div. CO1 (6)

b) Explain the following with an example. CO1 (10)

a) Sub

b) Sup

c) br and wbr Elements

d) mark

e) small Element

c) Explain title Element and meta Element. CO1 (4)

Q.No.		CO's	Marks
1.	a) List the types of the 'meta' element in HTML with examples. "Meta element is a void element." Why? Elaborate.	1	10
	b) Write HTML code to create a simple web page "About RIT" using various body elements.	1	6
	c) With examples explain the role of 'cite' and 'pre' HTML tags.	1	4
2.	a) Write Web page using HTML tags that include the following 1. Pop up the 'title' attribute's value when the mouse hovers over title part in the web page 2. Mark header(H1) content 3. word breaks 4. superscripts 5. display text in bold , uppercase	1	8
	b) Discuss phrasing elements with examples.	1	4
	c) With examples, differentiate between the following HTML elements 1. p and div 2. hr and br 3. title and meta	1	8

Q.No.		CO's	Marks
1.	a) Briefly explain any 3 of the following tags with HTML code i) ii) <ins> iii) iv) v) <abbr> vi) <q>	1	9
	b) State and Explain various Coding Conventions in Hyper Text Markup Language.	1	5
	c) Using various body elements <hr>, <p>, , <div> of hypertext Markup Language, write HTML code to display Bangalore weather information.	1	6
2.	a) What is whitespace collapsing? How to preserve white space using "preformatted text". Write a source code to preserve whitespaces in HTML.	1	7
	b) Name the tag used in HTML and Illustrate with proper coding example. i) To display the long quotations ii)Specify the section that is quoted from other source	1	7
	c) List and explain 2 editing elements with HTML source code	1	6

UNIT-2

- 3.a) Explain the tag-based multimedia in HTML documents with an example. CO2 (10)
 b) Explain the concept of Client-Side Graphics with <canvas>. CO2 (10)
 4.a) Write a short note on Loose Syntax Returns and XHTML5. CO2 (10)
 b) HTML5 documents contain a header element, which is used to set the header section of a document and thus often contains the standard h1 to h6 heading elements. Now with a simple example, mention all six header elements in it. CO2(5)
 c) Why is Marking Text important? Justify. CO2 (5)

Using Headers, write code in XHTML5 to generate the output as shown below. 2 8

- ```
1. Welcome to the Future World of HTML5
1. Chapter 2
1. New Structural Elements
1. header Element
2. footer Element
3. section Element
2. New Form Elements
1. input type=date
2. Chapter 3
```

With examples, indicate how figures and videos can be placed in a web page. 5  
 Elaborate on the element used to create blogs in HTML. 7

Write HTML code to get the output shown below. 2                      10

**Smile you're on canvas**



With suitable illustrations explain the HTML5 document structure changes. 2                      10

- |    |                                                                                                                                                                     |   |   |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|
| 3. | a) Which tag is used to set navigation links. Write html code to set navigation links?                                                                              | 2 | 6 |
|    | b) How can figures be inserted in HTML. Illustrate with proper coding example.                                                                                      | 2 | 7 |
|    | c) What's the need of mark tag in HTML5? Write html code to highlight the text content in yellow colour by default?                                                 | 2 | 7 |
| 4. | a) Which tag is used in HTML5 to display machine readable format of time element? Write a HTML code which uses datetime tag                                         | 2 | 6 |
|    | b) _____tag is used to embed video content in a document, such as a movie clip or other video streams. List the names of the video formats and supporting browsers. | 2 | 6 |
|    | c) Write HTML code to display audio formats for i) Wav ii) Ogg iii) Multiple formats and fallback.                                                                  | 2 | 8 |

## UNIT-3

5.a) Explain in detail RGB values for color with percentages, Integers and Hexadecimal with an example. CO3 ( 10 )

b) How to display text with different font characteristics? Explain with examples. CO3 ( 10 )

6.a) With an example explain Type Selectors and Universal Selector.CO3 ( 6 )

b) What is the purpose of using span and div Elements in an HTML5 document? Justify. CO3 ( 6 )

c)Write a short note on Text and Border Properties. CO3 (8 )

|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |
|----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|
| 5. | a) | Explain type selectors and universal selectors with suitable examples.                                                                                                                                                                                                                                                                                                                                                                                              | 3 | 6 |
|    | b) | Create a Web page that uses HTML and CSS to contain texts with different colors , different types of font with varying opacity.                                                                                                                                                                                                                                                                                                                                     | 3 | 8 |
|    | c) | What does "cascading" mean in the term "Cascading Style Sheets"? Explain                                                                                                                                                                                                                                                                                                                                                                                            | 3 | 6 |
| 6. | a) | What is the syntax for the element that links a web page to an external CSS file? Illustrate with an example.                                                                                                                                                                                                                                                                                                                                                       | 3 | 6 |
|    | b) | Write a web program to include the following text<br>"Web programming <b>refers to the <u>writing, markup and coding</u> involved in Web development, which includes Web content, Web client and server scripting and network security.</b> The most common languages used for Web programming are XML, HTML, JavaScript, Perl 5 and PHP." This content is placed in a border with sufficient padding and thick borders. The text is indented to 4em, right aligned | 3 | 8 |
|    | c) | Discuss the HSL and HSLA Values for Color.                                                                                                                                                                                                                                                                                                                                                                                                                          | 3 | 6 |
| 5. | a) | Define Cascaded Style Sheets (CSS) With advantages. Write the general syntax of CSS and name its attributes                                                                                                                                                                                                                                                                                                                                                         | 3 | 6 |
|    | b) | Write the Source code for Tree Poem web page in CSS and explain its attributes?                                                                                                                                                                                                                                                                                                                                                                                     | 3 | 6 |
|    | c) | Define opacity values for color and write an opacity example that illustrates the rgba construct and opacity property.                                                                                                                                                                                                                                                                                                                                              | 3 | 8 |
| 6. | a) | Describe CSS Rules and Differentiate between Universal Selector and Element selector with proper illustration.                                                                                                                                                                                                                                                                                                                                                      | 3 | 6 |
|    | b) | State and explain four different Text Properties with text values and description                                                                                                                                                                                                                                                                                                                                                                                   | 3 | 8 |
|    | c) | Name the property used to specify the vertical separation between each line of text in an element? Write the source code for declaration of independence web page.                                                                                                                                                                                                                                                                                                  | 3 | 6 |

- 6.a** Create a Web page that uses HTML and CSS to contain texts with different colors , different types of font with varying opacity. 5
- b** Name the property used to specify the vertical separation between each line of text in an element? Write the source code for declaration of independence web page. 6
- c** Name the purpose of Java script (JS). Write JS code display hello world! 5

## UNIT-4

7.a)List and explain the most common formats used for bitmap image files with examples.

CO4 ( 10 )

b)Describe how to format data tables in terms of their borders, cell alignment, and cell padding with examples. CO4 ( 6 )

c)How important are iframe elements? Explain.CO4 ( 4 )

8.

a)Explain the concept of thead and tbody Elements in detail. CO4 ( 8 )

b)Mention the differences between relative URLs and path-absolute URLs CO4 ( 6 )

c) Write a short note on Web Fonts and a shortcut icon. CO4 ( 6 )

7. a) Write HTML code to create a web page that includes a table as shown below. 4 8

| Sr. No | Roll No | Name  | Team  |
|--------|---------|-------|-------|
| 1      | 1001    | John  | Red   |
| 2      | 1002    | Peter | Blue  |
| 3      | 1003    | Henry | Green |

- b) Explain relative positioning with an example. 4 6
- c) With appropriate CSS code describe how web fonts can be incorporated in web pages. 4 6
8. a) What are the different types of href values? Illustrate with example. 4 6
- b) Write CSS statements for the following 4 5
- Unvisited links
  - Visited links
  - Have links without underline.
  - Underline the link when hovering over it.
  - Have a font size of 8em for the link
- c) Write a HTML program to accept an image, with suitable height and width. Style the image by making its text caption center aligned. Further, float the photographs to the left and right. Place an image to cover the web page background. Also, include audio links in the web pages prompting the user to click on any one of them. 4 9
7. a) Name the Table values for the display property and describe them. 4 6
- b) What is the need of thead and tbody elements in CSS. Write a source code in CSS to display the following table which shows average annual Global temperature. 4 7

Average Annual Global  
Temperatures

| Year | Temp Rank | Avg Temp (°F) |
|------|-----------|---------------|
| 2016 | 1         | 58.98         |
| 2015 | 2         | 58.77         |
| 2014 | 3         | 58.53         |
| 2013 | 5         | 58.37         |
| 2012 | 9         | 58.33         |

- |       |                                                                                                                     |   |   |
|-------|---------------------------------------------------------------------------------------------------------------------|---|---|
| c)    | What are the various Table elements used in CSS. Write a source code for Wind Disasters web page in CSS.            | 4 | 7 |
| 8. a) | List and describe any three structural pseudo class selectors used in CSS. Write CSS code for Power Table Web Page. | 4 | 9 |
| b)    | Identify the need of "aelement" in CSS, illustrate with example.                                                    | 4 | 5 |
| c)    | What are the Common formats for web page bitmap image files and explain.                                            | 4 | 6 |

**8.a** Write a web program to include the following text 4

"A server is a **computer program or device that provides a service to another computer program and its user, also known as the client.** In a data center, the physical computer that a server program runs on is also frequently referred to as a server. That machine might be a dedicated server or it might be used for other purposes."

- This content is placed in a border with sufficient padding and thick borders. The text is indented to 4em, right aligned
- b** Write CSS statements for the following 5
- Unvisited links
  - Visited links
  - Have links without underline.
  - Underline the link when hovering over it.
  - Have a font size of 8em for the link
- c** Write a short note for the following. 6
- a) DOM
  - b) Functions in Java Script

## UNIT-5

- 9.a) Write a short note for the following.
- a) DOM
  - b) Functions in Java Script CO5 ( 10 )
- b)Write a Java Script to design a simple calculator to perform the following operation: Sum, Product, Difference and Quotient. CO5 ( 10 )
- 10.a)Write a short note on Buttons and variables with respect to JavaScript. CO5 ( 8 )
- b) Explain comments and coding conventions. CO5 ( 8 )

c)List some of the more popular event-handler attributes and their associated events.

CO5 ( 4 )

- |     |    |                                                                                                                                                                                                                          |   |    |
|-----|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|
| 9.  | a) | Create a web page to manage phone numbers of employees in a company. On clicking on the submit button display the contents on the web page.                                                                              | 5 | 10 |
|     | b) | Discuss the JavaScript properties for the following text control element attributes with examples: type, placeholder, size, maxLength, value, autofocus, disabled, readOnly                                              | 5 | 10 |
| 10. | a) | Create a form to create an email id generator, accepting the first name, last name, age, profession and address. When the user clicks on the generate button, display the generated email using the first and last name. | 5 | 10 |
|     | b) | List and explain any 5 event handler attributes and their associated events.                                                                                                                                             | 5 | 10 |
| 9.  | a) | Name the purpose of Java script (JS). Write JS code display hello world!                                                                                                                                                 | 5 | 7  |
|     | b) | What is Document Object Model (DOM) and what are the three ways to access the nodes in the node tree. Write a DOM node tree for any simple web page                                                                      | 5 | 8  |
|     | c) | Explain the coding conventions used in On change Event Handler                                                                                                                                                           | 5 | 5  |
| 10. | a) | Define Text Control in JS with its Syntax. Write Email Address Generator Web Page using Text Control.                                                                                                                    | 5 | 10 |
|     | b) | what are the common event-handler attributes and their 5 associated events. Use different event handler to implement scraps the dog web page in js.                                                                      |   |    |



**10.a** Write the Source code for Tree Poem web page in CSS and explain its attributes? 6

**b** Write HTML code to create a web page that includes a table as shown below. 5

| Sr. No | Roll No | Name  | Team  |
|--------|---------|-------|-------|
| 1      | 1001    | John  | Red   |
| 2      | 1002    | Peter | Blue  |
| 3      | 1003    | Henry | Green |

**c** Create a form to create an email id generator, accepting the first name, last name, age, profession and address. When the user clicks on the generate button, display the generated email using the first and last name 4