

- (c) What is meant by a Sitemap? Describe the hierarchical and linear website-structure with the help of suitable diagram. (6)

[This question paper contains 12 printed pages.]

Your Roll No.....

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H

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Name of the Paper : Introduction to Web Programming

Name of the Course : Computer Science Generic Elective

Semester : IV

Duration : 3 Hours

Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. This question paper has **two** sections **A** and **B**.
3. Question **1** in **Section A** is compulsory.
4. Attempt any **4** questions from **Section B**.
5. Parts of a question must be attempted together.
6. **Section A** carries **30** marks and each question in **Section B** carries **15** marks.

Section-A

1. (a) What is meant by tags? Give two examples of formatting tags. (2)
- (b) Differentiate between Internet and Extranet. (2)
- (c) Write a jQuery statement to change the font style of a paragraph to 'monospace' and to align the text to 'justify'. (2)
- (d) Write a HTML code to create a link that has a color 'blue' but color is changed to 'Green' when link is visited. (3)
- (e) Explain the box-model in CSS with the help of a diagram. Name the attributes of CSS applicable for box-model. (4)
- (f) List any four key points that should be considered while planning a website. (4)

7. (a) What is a website-address? Describe various components of a web-address giving suitable example. (4)
- (b) Write the HTML code to create the following list structure : (5)
- o Social Media Platforms
 - I. Facebook
 - II. Twitter
 - III. Instagram
 - IV. WhatsApp
 - o OTT Platforms
 - I. NetFlix
 - Series
 - Documentary
 - Movies
 - II. Prime Video
 - III. HotStar

- Two paragraph elements having different classes, namely "class-A" & "class-B",
- Three divisions - div-1 having id = "div1" and div-2 and div-3 having classes as "class-A" and "class-B", respectively.

Use internal CSS to style above elements to demonstrate the usage of :

- Element-selector to style the <HR>,
- id-selector,
- Class-selector,
- Selection of the multiple HTML elements to be styled in same way.

- (b) Create an HTML document with two textboxes. Write the jQuery code such that when a textbox gets the focus, its background color must change to 'yellow', and when it loses focus, its background color is removed. (5)

- (g) Write HTML and CSS code to set alignment "right" and the text color "cyan" and border color "red" of a paragraph using class and id properties.

(4)

- (h) Write the HTML code to create the table given below :

(4)

	Average		Total
	Theory	Practical	
	70	30	
Boys	52	25	77
Girls	60	27	87

- (i) Give the output of the following code segment:

(5)

```
<script>
var x= 12.5;
var y = '4';
document.write('<br> parseInt(3.2)= ' + parseInt(3.2));
document.write('<br> parseFloat(7)= ' + parseFloat(7));
document.write("&<br> 5 == '5'" + (5 == '5'));
document.write("&<br> 5 === '5'" + (5 === '5'));
document.write('<br> x + y = ' + (x + y));
</script>
```

SECTION-B

2. (a) What are three ways to add CSS code in HTML document? What is the precedence of these three types of CSS? (5)

(b) Write an html code to create a division with 'yellow' background color and a button with the text 'Change Color' on it. Use jQuery to define the function on the click of the button, that selects the division and changes its background color to 'pink'. (5)

(c) Write the syntax to perform the following : (5)

- To insert a hyperlink to email address.
- To style the font-style and font size of elements with id "demo" using CSS.

- Add comments in HTML.
- Create hyperlink on an image.
- Create a marquee running from right to left and from left to right alternatively.
- To make specific word/phrase in a sentence relatively bigger than rest of the text.

For example 'The world is very small'.

- To write the chemical equation ' $2\text{H}_2\text{O} = 2\text{H}_2 + \text{O}_2$ '.

6 (a) Write the HTML code to define following HTML elements having the id and class as mentioned below: (10)

- One <HR> element.

```
<script>
```

```
    var x = 5;
    var y = '4';
    var z = (7.52).toString();
    document.write('<br> x + y = ' + (x+y));
    document.write('<br> x * y = ' + (x*y));
    document.write('<br> x + z = ' + (x+z));
```

```
</script>
```

5. (a) Give a brief description of any two formats of images that are supported by HTML5. Write an HTML code to insert an image in the document.

(5)

- (b) Write a Javascript code to display multiplication table of a number entered by the user through prompt.

(5)

- (c) Give the syntax to perform the following:

(5)

- To set the margin and border of a division, an image and a span element simultaneously, using CSS without using class.

3. (a) Create an html file 'signup.html' to create an account registration form for a mail-server, having the following fields: (5)

- Two Text boxes for: user-ID and password.
- Checkboxes for Gender.
- Submit (Labelled as 'Register') and Reset buttons. Use label tags to label the elements. Also, when the form gets submitted, a 'success.html' page must be presented to user with message "Registration successful".

(b) Create another file "form.css" to style the form elements mentioned in Q3 (a): (5)

- Set the width of textbox to 60px.
- Set the Font size of labels to 12px, font style to 'Verdana'.
- Set 20px Padding for textboxes.
- Apply 2px thick border of 'aqua' color around the form.

Also, write the HTML statement to link CSS file "form.css" with the HTML file "signup.html".

(c) What are semantic tags in HTML? Describe any three semantic tags with suitable examples. (5)

4. (a) Create an HTML file having a textbox to accept a number. Write the JavaScript function that executes when the textbox loses focus and performs the following : (5)

- Access the number entered by the user in the textbox and stores in a variable named 'num'.
- Checks if the number is less than zero or not. It displays the message "The entered number is negative" if $\text{num} < 0$, else displays the message "The entered number is positive" in the alert box.

(b) Differentiate between break and continue statements in java-script. Give suitable examples of break and continue. (5)

(c) Differentiate between implicit and explicit typecasting in JavaScript. Write the output of the following code. Also briefly explain where the implicit or explicit typecasting is being performed. (5)