USN					



Internal Assessment Test 1 –April 2023-Scheme & Solution

Sub:	WEB TECHNOLOGY AND	D ITS APPLICATION	S	Sub Code:	18CS63	Bran	ch: ISE		
Date:	25/04/2022 Duration: 9	90 min's Max Mark	s: 50	Sem/Sec:	VI A, B & C		•	OB	
	Ansv	ver any FIVE FULL Qu	estions				MARKS	СО	RB T
1	Design the given form in tab		opriate	styles as sho	own in figure.				
	Name								
	Password			Ī					
	Email			j					
	Contact no.								
	Country	Choose a cour	ntry ~						
	Permant Address	enter addres	s wi	th //					
	Gender	O Male O Female							
	Languages known	☐ C ☐ Java ☐ Python ☐ C++							
	Sul	bmit Reset							
	<html></html>								
	<head></head>								
	<style></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>table,th{</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>L3</td></tr><tr><td></td><td>border:solid 1pt black;</td><td></td><td></td><td></td><td></td><td></td><td>Code-10</td><td>CO2</td><td></td></tr><tr><td></td><td>border-collapse: collapse;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>padding: 15px;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>}</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>td{</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>border:solid 1pt black;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>padding:10px;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>}</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>tr:nth-child(odd)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>{</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>background-color: cornsilk;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>}</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>tr:nth-child(even)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>{</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>l</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>. ,</td><td></td></tr></tbody></table></style>								

```
background-color:darksalmon
 }
 th{
  background-color: cyan;
 }
 .merged{
  text-align: center;
 }
</style>
</head>
<body>
<h2>Form within Table</h2>
<form method="GET" action=" "></form>
Name
  <input type="text" name="name"/>
  Password
   <input type="password" name="password"/>
   Email
   <input type="email" name="email">
```

```
Contact no.
 <input type="tel" name="contactno">
 Country
 <select name="where">
   <option>Choose a country</option>
   <option>India</option>
   <option>Australia
   <option>United States
  </select>
 Permant Address
 >
  <textarea placeholder="enter address with pincode"></textarea>
 >
  Gender
 >
```

```
<input type="radio" name="gender" value="male">Male
     <br>
     <input type="radio" name="gender" value="female">Female
   Languages known
   <input type="checkbox" name="C"/>
     <label>C</label> <br>
     <input type="checkbox" name="Java"/>
     <label>Java</label> <br>
     <input type="checkbox" name="Python"/>
     <label>Python</label> <br>
     <input type="checkbox" name="PHP"/>
     <label>C++</label>
   <input type="submit"/>
    <input type="reset"/>
   </body>
</html>
```

Explain the need of cascading in CSS. Illustrate the three cascade principles with CO1 L1 suitable CSS Script Segments. need of cascading The Cascade: How Styles Interact in CSS-1 Multiple CSS rules can be defined for the same HTML element, at M different locations - inline, embedded or external. The browser determines the style to be applied on an element, depending on the Three location and hierarchy of the html element. Cascadin The "Cascade" in CSS refers to how conflicting rules are handled. CSS uses the following cascade principles to help it deal with Priniplesconflicts: inheritance, specificity, and location. 3M each **Inheritance Inheritance** is the first of these cascading principles. Many (but not all) CSS properties affect not only themselves but their descendants as well. Font, color, list, and text properties are inheritable; layout, sizing, border, background, and spacing properties are not 10 inheritable. If suppose, this is a document, <head> <style> body { font-family: Arial; color: red; border: 8pt solid green; margin: 100px; } div { font-weight: bold; </style> </head> <body> <div>Will be displayed in red, with arial font and bold</div> </body> <div>Will be displayed in red, with arial font and bold</div> </body> The font settings are inherited from the parent tag, border and margin are not inheritable. However it is possible to tell elements to inherit properties that are normally not inheritable, by explicitly specifying as 'inherit'. div { font-weight: bold; border: inherit; margin: inherit; } **Specificity Specificity** is how the browser determines which style rule takes

precedence when more than one style rule could be applied to the same element. In CSS, the more specific the selector, the more it takes precedence (i.e., overrides the previous definition)

```
<head>
<style>
    body {
    font-family: Arial; color: red;
    border: 8pt solid green; margin: 100px;
}

div {
    font-weight: bold; color: blue; }
    </style>
    </head>
    <body>
    <div>Will be displayed in blue, with arial font and bold</div>
    </body>
</div>Will be displayed in blue, with arial font and bold</div>
</body>
```

The content of <div> is displayed in blue, as the red color setting of <body> tag is overridden in the specification of <div> tag.

## Location

The principle of location is that when rules have the same specificity, then the latest are given more weight. Ie., an inline style will override one defined in an embedded style sheet and embedded style will override the external style sheet.

Styles defined in external style sheet X will override styles in external style sheet Y if X's link> element is after Y's in the HTML document.

```
<link rel= "stylesheet" href= "Y">
<link rel= "stylesheet" href= "X">
```

When the same style property is defined multiple times within a single declaration block, the last one will take precedence.

## **Specificity algorithm:**

- First count 1 if the declaration is from a "style" attribute in the HTML, 0 otherwise (let that value = a).
- Count the number of ID attributes in the selector (let that value = b).
- Count the number of class selectors, attribute selectors, and pseudo-classes in the selector (let that value = c).
- Count the number of element names and pseudo-elements in the selector (let that value = d).
- Finally, concatenate the four numbers a+b+c+d together to calculate the

	selector's specificity.			
3 (a)	Explain the role of the following commands in HTML5 with syntax i) <nav> ii) <figure> iii) <aside></aside></figure></nav>	6 2M Each	CO1	L1
	Navigation  The <nav> element represents a section of a page that contains links to other pages or to other parts within the same page. Like the other new HTML5 semantic elements, the browser does not apply any special presentation to the <nav> element. The <nav> element was intended to be used for major navigation blocks. However, like all the new HTML5 semantic elements, from the browser's perspective, there is no definite right or wrong way to use the <nav> element. Its sole purpose is to make the document easier to understand.</nav></nav></nav></nav>			
	<pre><header>     <ing alt="logo" src="logo.gif"></ing>     <hi>Fundamentals of Web Development</hi>     <nav role="navigation"></nav></header></pre>			
	Figure and Figure Captions Prior to HTML5, web authors typically wrapped images and their related captions within a nonsemantic <div> element. In HTML5 we can instead use the <figure> and <figcaption> elements. The figure element represents some flow content, optionally with a caption, that is self- contained and is typically referenced as a single unit from the main flow of the document.</figcaption></figure></div>			
	This photo was taken on October 22, 2011 with a Canon EOS 30D camera. <figure> <img alt="Central Park" src="images/central-park.jpg"/>  <figcaption>Conservatory Pond in Central Park</figcaption> </figure>			
	The above tags illustrates a sample usage of the <figure> and <figcaption> element.</figcaption></figure>			
	Aside			

The <aside> element is similar to the <figure> element, the <aside> element</aside></figure></aside>			
"represents			
a section of a page that consists of content that is indirectly related to			
the content around the aside element". The <aside> element is be</aside>			
used for sidebars, pull quotes, groups of advertising images, or any			
other grouping of non-essential elements.			
3 (b) Compare id selector and class selector in CSS with suitable example.	4	CO1	L2
A class selector allows to simultaneously target different HTML	2M each		
elements. The HTML elements with the same class attribute value,			
can be styled by using a class selector.			
Syntax: period (.)classname{ styles}			
Eg:			
<head></head>			
<title>Student details </title>			
<style></td><td></td><td></td><td></td></tr><tr><td>.first {</td><td></td><td></td><td></td></tr><tr><td>Font-style: italic;</td><td></td><td></td><td></td></tr><tr><td>Color:red;</td><td></td><td></td><td></td></tr><tr><td>}</td><td></td><td></td><td></td></tr><tr><td>/ </style>			
  body>			
<h1 class="first">Student Info</h1>			
<div></div>			
<pre>Amith</pre>			
Easy to learn.			
<hr/>			
<div></div>			
<pre>Bhushan</pre>			
Very much special.			
<hr/>			
Id Selectors			
An <b>id selector</b> allows to assign style to a			
specific element by its id attribute. Syntax:			
hash (#)id name			
Eg:			
<head></head>			
<title>Student details </title>			
<style></td><td></td><td></td><td></td></tr><tr><td>#first{</td><td></td><td></td><td></td></tr><tr><td>Font-style: italic;</td><td></td><td></td><td></td></tr><tr><td>Tone-style, hane,</td><td></td><td></td><td></td></tr></tbody></table></style>			

		1	1
Color:red;			
}			
<body></body>			
<h1 id="first">Student Info</h1>			
<div></div>			
<pre>Amith</pre>			
Easy to learn.			
<hr/>			
<div></div>			
>Bhushan			
Very much special.			
<hr/>			
4(-) WILL COCCO III. 4-4-4 1 4 1- 41 14 HTMI 1- 100 4 1 41 41	1	C01	1.0
4(a) What is CSS? Illustrate how it is added to HTML in different ways with suitab	le examples 6 2M each	C01	L2
Inline Styles			
<b>Inline styles</b> are style rules placed within an HTML element using the style attribute, as shown below. An inline style only offerts to			
the style attribute, as shown below. An inline style only affects t			
element it is defined within and overrides any other style definition			
Selector is not necessary with inline styles and that semicolons a	are		
only required for separating multiple rules.			
Disadvant			
ages of			
using			
inline			
style-			
Style is			
applied to			
an			
element			
only			
Maintaini			
ng the			
inline			
style is			
difficult			
The advantage of using inline style is that it can be			
quickly tested for a style change. Eg: <h2 style="font-&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;size:24pt;"> Description</h2>			
<h2 style="font-size:24pt; font-weight:bold;"> Reviews <td>&gt;</td><td></td><td></td></h2>	>		
Embedded Style Sheet (Document Level/Internal )			
Embedded style sheets (also called internal styles or docume	nt		
level styles) are style rules placed within the <style> element (insi</td><td>de</td><td></td><td></td></tr><tr><td>the <head> element of an HTML document) and apply to the who</td><td>ole</td><td></td><td></td></tr><tr><td>body of the document.</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></tbody></table></style>			

The disadvantage of using embedded styles is that it is difficult to consistently style multiple documents when using embedded styles. But it is helpful when quickly testing out a style that is used in multiple places within a single HTML document. Spaces are ignored in <style> element. <head> <title>Student Data</title> <style> h1 { font-size: 24pt; } h2 { font-size: 18pt; font-weight: bold; </style> </head> <body> <h1>Student count</h1> <h2>CSE/ISE Department</h2> </body> **External Style Sheet** External style sheets are style rules placed within an external text file with the .css extension. This style provides the best maintainability. When you make a change to an external style sheet, all HTML documents that reference that style sheet will automatically use the updated version. To reference an external style sheet, you must use a <link> element (within the <head> element). Several style sheets can be linked at a same time. Each linked style sheet will require its own link> element. <head > <title>Share Your Travels -- New York - Central Park</title> <link rel="stylesheet" href="styles.css" /> </head> CO1 L1 4(b) Explain the role of and HTML tags with example. Lists 2M each HTML provides simple and effective ways to specify lists in documents. There are three types of lists: ■ Unordered lists. Collections of items in no particular order; these are by default rendered by the browser as a bulleted list. However, it is common in CSS to style unordered lists without the bullets. Unordered lists have become the conventional way to markup navigational menus. ■ **Ordered lists**. Collections of items that have a set order; these are by default rendered by the browser as a numbered list.

```
<01>
                                    Introduction
                                    Background
                                    My Solution
        Notice that the list item element
                                     can contain other HTML
        elements.
                                      <01>
                                        Hethodology
 <11>
                                        Results
   <a href="index.html">Home</a>
                                        Discussion
   About Us
                                      </01>
   Products
                                     </1i>
   <1i>Contact Us</1i>
                                    Conclusion
 </11>
                                   </01>
   Example Lists
                                    [] Example Lists
                                    ← → C Q listing02-10.html
                                                             4
  ← → C 9 listing02-09.html
                                     1. Introduction

    Home

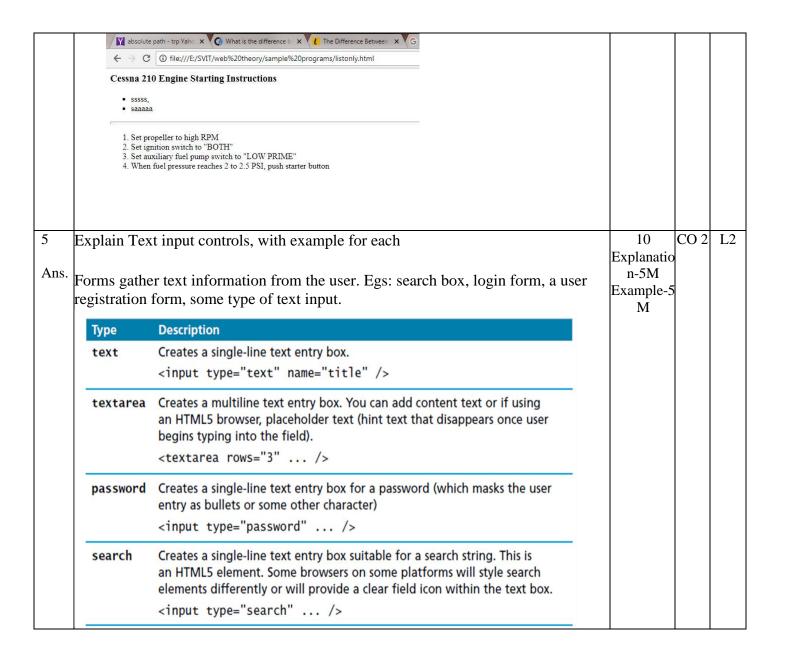
                                     2. Background
    · About Us
                                     3. My Solution

    Products

                                        1. Methodology

    Contact Us

                                        2. Results
                                        3. Discussion
                                     4. Conclusion
<html >
<head> <title> list </title>
</head>
<body>
    <h3> Cessna 210 Engine Starting Instructions </h3>
    ul >
        sssss,
        saaaaa
    <hr size="5"/>
    </
        Set propeller to high RPM 
        Set ignition switch to "BOTH" 
        Set auxiliary fuel pump switch to "LOW PRIME" 
        When fuel pressure reaches 2 to 2.5 PSI, push starter button 
        </body>
        </html>
```



email	Creates a single-line text entry box suitable for entering an email address. This is an HTML5 element. Some devices (such as the iPhone) will provide a specialized keyboard for this element. Some browsers will perform validation when form is submitted. <input type="email"/>	
tel	Creates a single-line text entry box suitable for entering a telephone. This is an HTML5 element. Since telephone numbers have different formats in different parts of the world, current browsers do not perform any special formatting or validation. Some devices may, however, provide a specialized keyboard for this element. <input type="tel"/>	
url	Creates a single-line text entry box suitable for entering a URL. This is an HTML5 element. Some devices may provide a specialized keyboard for this element. Some browsers also perform validation on submission. <input type="url"/>	
TABLE 4.3	3 Text Input Controls	
<input Text:</input 	type="text" />	
<th>r some text </th> <th></th>	r some text	
TextArea:	TextArea;	
<input Password:</input 	type="password" /> Password:	
<input< td=""><td>type="search" placeholder="enter search text" /&gt;</td><td></td></input<>	type="search" placeholder="enter search text" />	
Search: enter	r search text Search: HTML X	

