



**SCHOOL OF COMPUTER SCIENCE AND ENGINEERING**

**CAT-I**

**Fall Semester 2017-18**

Subject	: Internet and Web Programming	Subject Code: CSE3002
Faculty Details:	Common for all Batches	Slot : E2
Duration	: 90 Minutes	Max. Marks : 50

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**PART – A (4 \*5=20)**

**Answer all the Questions**

1. Discuss Link Pseudo classes with an example. [5]

**Ans.** a:link

a: Visited

a:hover

a:active

2. Show how JavaScript can be used to visit previous and forward webpages of the web browser and also display the current URL [5]

**Ans.**<!DOCTYPE html>

<html>

<body>

<button onclick="goback()">Go Back</button>

<button onclick="goForward()">Go Forward</button>

<a href="http://vit.ac.in">VIT University</a>

<script>

function goForward() {

    window.history.forward();

    alert(location.href);

}

function goback() {

    window.history.back();

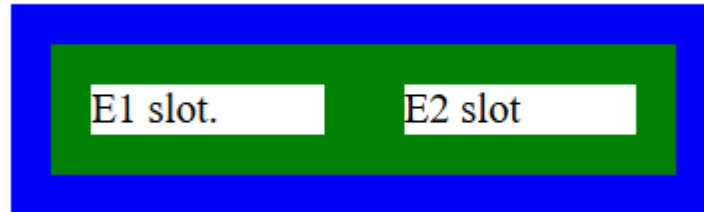
    alert(location.href);

}

```
</script>
</body>
</html>
```

3. Design the below layout with necessary CSS3 properties.

[5]



**Ans.** <!DOCTYPE html>

```
<html>
<head>
<style>

```

4. Explain how canvas element is used to make drawings dynamically with an example

[5]

**Ans.** The HTML <canvas> element is used to draw graphics, on the fly, via JavaScript. The <canvas> element is only a container for graphics. Should use JavaScript to actually draw the graphics **1 Marks**

```
<html>
<body>
<canvas id="myCanvas" width="200" height="100" style="border:1px solid #c3c3c3;">
Your browser does not support the HTML5 canvas tag.
</canvas>      2 Marks
<script>
```

```

var c=document.getElementById("myCanvas");
var ctx=c.getContext("2d");
ctx.fillStyle="#FF0000";
ctx.fillRect(0,0,150,75);
2Marks
</script>
</body>
</html>

```

## PART – B (3 \*10=30)

### Answer all the Questions

5. (a) Design a webpage to change the background image in every 5 seconds. [4]  
HTML code and CSS Animation

**Ans.** animation-name: example; 2 Marks  
 animation-duration: 5s;  
 animation-iteration-count: infinite  
 @keyframes example { 2 Marks  
   from { background-image: url(1.gif); }  
   to { background-image: url(2.gif); }  
 }

(b) Design a webpage given below and do the basic validation using HTML5. [6]

Name	<input type="text"/>
E Mail	<input type="text"/>
Zip Code	<input type="text"/>
Country	<input type="text" value="[choose yours]"/>
	<input type="button" value="Submit"/>

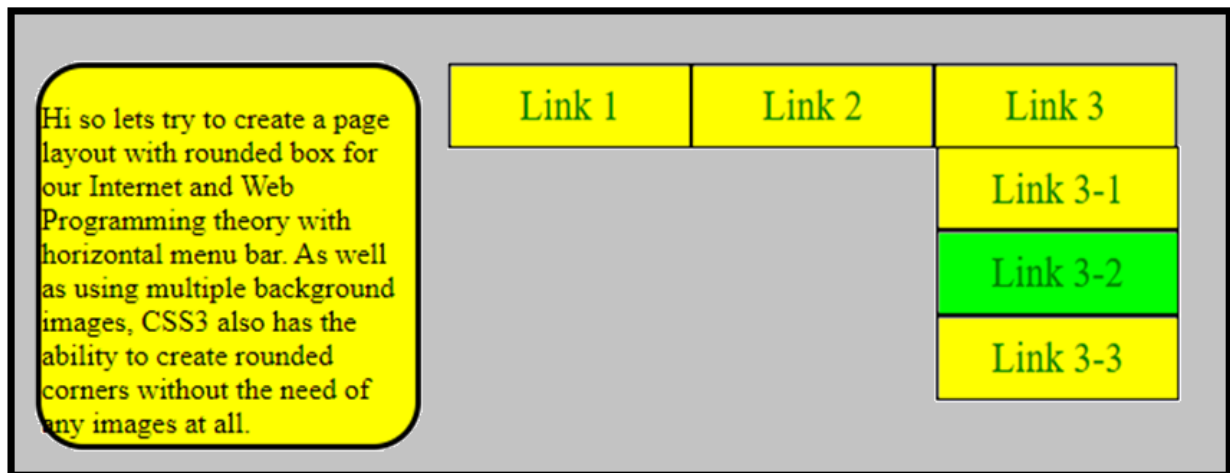
**Ans. b.** <table> 2 Marks

<form>

<input > 2 Marks

For all the input elements required/pattern attribute should be used. 2 Marks

6. Design the page layout with necessary CSS properties. [10]



Ans. `<style type="text/css">` and other CSS properties

```
#menu{
padding:0;
margin:0;
}
#menu ul{
padding:0;
margin:0;
}
#menu li{
border:solid;
border-color:#000;
border-width:thin;
position: relative;
float: left;
list-style: none;
margin: 0;
padding:0;
}
box
{
width:200px;
height:200px;
border:solid;
border-radius: 1.6em;
background-color:#FF0;
}
</style>
</head>
```

1 Marks

3 Marks

1 Marks

```
<body>
<div class="box">
<br>
Hi so lets try to create a page layout with rounded box for our Internet and Web Programming theory
with horizontal menu bar.
As well as using multiple background images, CSS3 also has the ability to create rounded corners
without the need of any images at all.
</div>
```

```
#menu li a{
height: 30px;
display: block;
text-decoration:none;
text-align: center;
line-height: 30px;
background-color: #FF0;
color: green;
}
```

4 Marks

```
#menu ul ul{
position: absolute;
top: 30px;
visibility: hidden;
}
#menu ul li:hover ul{
visibility:visible;
}
```

```
#menu li a:hover{
background-color:#0F0;
}
```

1 Marks

```
</style>
```

```
</head>
```

```
<body>
<div id="menu">
<ul>
<li><a href="#nogo">Link 1</a>
<ul>
<li><a href="#nogo">Link 1-1</a></li>
<li><a href="#nogo">Link 1-2</a></li>
<li><a href="#nogo">Link 1-3</a></li>
</ul>
</li>
<li><a href="#nogo">Link 2</a>
<ul>
<li><a href="#nogo">Link 2-1</a></li>
<li><a href="#nogo">Link 2-2</a></li>
```

```

<li><a href="#nogo">Link 2-3</a></li>
</ul>
</li>
<li><a href="#nogo">Link 3</a>
<ul>
<li><a href="#nogo">Link 3-1</a></li>
<li><a href="#nogo">Link 3-2</a></li>
<li><a href="#nogo">Link 3-3</a></li>
</ul>
</li>
</ul>
</div>
</body>
</html>

```

7. Perform the following operation using array methods for a given array N=[12,34,56,78,3,6]

- i. Remove Last element of an array
- ii. Add an elements [45,67] to position 3 in an array
- iii. Add element 90 to the beginning of an array
- iv. Create a new array from first three elements of N array
- v. At position 5 add two elements and remove 1 element from array N

**Ans.**

- I. a.pop();
- II. a.splice(3,0,45,67)
- III. a.unshift(90)
- IV. a.slice(0,3);
- V. a.splice(5,1,77,88)

\*\*\*\*\*All the Best\*\*\*\*\*