

- **Vendor: Microsoft**
- **Exam Code: 70-480**
- **Exam Name: Programming in HTML5 with JavaScript and CSS3 Exam**
- **Question 61 -- Question 90**

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**QUESTION 61**

You implement an application by using HTML5 and JavaScript. You create a webpage that contains the following HTML:

```
<!DOCTYPE html>
<html>
<head>
  <link href="site.css" rel="stylesheet" type="text/css" />
  <script type="text/javascript" src="jquery.js"></script>
</head>
<body>
  <div id="container">
    <ul>
      <li>First List Item
        <ul>
          <li>Child List Item</li>
        </ul>
      </li>
      <li>Second List Item</li>
      <li>Third List Item</li>
      <li>Fourth List Item</li>
    </ul>
    <p>Some interesting information that we need to display.</p>
    <p>More information that is important to this page.</p>
  </div>
</body>
</html>
```

The application must place a border on only the first UL element that is contained in the DIV element. You need to update the webpage. What should you do?

- ☐ A. Add the following SCRIPT element after the DIV element:

```
<script>
    $("div").each(function () {
        $("ul").each(function (index, domEle) {
            $(domEle).css("border", "1px solid black");
        });
    });
</script>
```

- ☐ B. Add the following SCRIPT element after the DIV element:

```
<script>
    $("div#container > ul").css("border", "1px solid black");
</script>
```

- ☐ C. Add the following SCRIPT element after the DIV element:

```
<script>
    $("ul:first-of-type").css("border", "1px solid black");
</script>
```

- ☐ D. Add the following style to the site.css file:

```
.container > ul {
    border: 1px solid black;
}
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer: D**

#### **QUESTION 62**

You troubleshoot a webpage that contains the following HTML element:

```
<canvas id= "clickCanvas" width="300"> height= "300">Your browser does not support the HTML5 canvas.</canvas>
```

The following JavaScript code is included in a script tag in the HEAD section of the webpage: (Line numbers are included for reference only.)

```
01 var canvas;
02 var context;
03 window.onload = function initialize() {
04     canvas = document.getElementById('clickCanvas');
05     context = canvas.getContext('2d');
06     drawBox();
07
08 }
09 function clickReporter(e) {
10     alert('clicked');
11 }
12 function drawBox() {
13     context.fillStyle = 'black';
14     context.strokeRect(20, 20, canvas.width - 20, canvas.height - 20);
15 }
```

You need to invoke the clickReporter() JavaScript function when a user clicks the mouse on the canvas HTML element.

What should you do?

- A. Add the following attribute to the canvas HTML element:  
clicked= "clickReporter()"
- B. Replace the code segment at line 06 with the following code segment:  
drawBox.Click += clickReporter;
- C. Insert the following code segment at line 07:  
canvas.onclick = clickReporter;
- D. Insert the following code segment at line 07:  
canvas, click = clickReporter;

**Answer: B**

### QUESTION 63

You are implementing an application by using HTML5 and JavaScript. A web page contains the following HTML table.

```
<table id="dataTable">
  <tbody>
    <tr><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
    <tr><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
    <tr><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
  </tbody>
  <tfoot>
    <tr class="selected"><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
  </tfoot>
</table>
```

The application must:

- Identify all rows in the table body that have a class attribute of selected
- Exclude the last selected row in the table

You need to implement the web page according to the requirements.  
Which CSS selector should you use?

- A. `tr:not(tr:last-child).selected < #dataTable`
- B. `#dataTable > tr.selected:not(tr:last-child)`
- C. `#dataTable tbody tr.selected:not(tr:last-child)`
- D. `#dataTable tr.selected:not(tr:last-child)`

**Answer: C**

#### QUESTION 64

Drag and Drop Question

You create the following JavaScript code:

```
var myApplication = myApplication || {};  
myApplication.LoanCalculator = function (displayControl, principle, term, rate) {  
  this.Principle = principle;  
  this.Term = term;  
  this.Rate = rate / 1200;  
  this.PaymentAmount = 0;  
  this.showPayment = document.getElementById(displayControl);  
};  
myApplication.LoanCalculator.prototype = {  
  CalculatePayment: function () {  
    this.PaymentAmount = (this.Principle * this.Rate / (1 - (Math.pow(1/(1 + this.Rate), this.Term)))).toFixed(2);  
    this.showPayment.innerHTML = '$' + this.PaymentAmount;  
  },  
  ShowCanWeAfford: function () {  
  }  
};
```

You must complete the ShowCanWeAfford() function:

Display the message Denied! If the PaymentAmount variable is greater than 500. Display the message Approved! If the PaymentAmount variable is less than 300. Display the message Approved with caution! If the PaymentAmount variable is less than 500 and greater than 300. You need to add statements to the ShowCanWeAfford() JavaScript function to meet the requirements.

Which three actions should you perform in sequence? (Develop the solution by selecting the required code segments and arranging them in the correct order.)

*****	
	Answer Area
<pre>else if (this.PaymentAmount    300) {   alert('Approved!'); }</pre>	
<pre>else if (this.PaymentAmount &gt; 500 &amp;&amp; this.PaymentAmount &lt; 300) {   alert('Approved with caution!'); }</pre>	
<pre>else if (this.PaymentAmount &lt; 300) {   alert('Approved!'); }</pre>	
<pre>if (this.PaymentAmount &gt; 500) {   alert('Denied!'); }</pre>	
<pre>if (this.PaymentAmount &gt;= 500) {   alert('Denied!'); }</pre>	
<pre>else {   alert('Approved with caution!'); }</pre>	
<pre>if (this.PaymentAmount &gt;&gt; 500) {   alert('Denied!'); }</pre>	
<pre>else if (this.PaymentAmount &lt;&lt; 300) {   alert('Approved!'); }</pre>	

**Answer:**

	Answer Area
<pre>else if (this.PaymentAmount    300) {   alert('Approved!'); }</pre>	<pre>if (this.PaymentAmount &gt; 500) {   alert('Denied!'); }</pre>
<pre>else if (this.PaymentAmount &gt; 500 &amp;&amp; this.PaymentAmount &lt; 300) {   alert('Approved with caution!'); }</pre>	<pre>else if (this.PaymentAmount &lt; 300) {   alert('Approved!'); }</pre>
<pre>else if (this.PaymentAmount &lt; 300) {   alert('Approved!'); }</pre>	<pre>else {   alert('Approved with caution!'); }</pre>
<pre>if (this.PaymentAmount &gt; 500) {   alert('Denied!'); }</pre>	
<pre>if (this.PaymentAmount &gt;= 500) {   alert('Denied!'); }</pre>	
<pre>else {   alert('Approved with caution!'); }</pre>	
<pre>if (this.PaymentAmount &gt;&gt; 500) {   alert('Denied!'); }</pre>	
<pre>else if (this.PaymentAmount &lt;&lt; 300) {   alert('Approved!'); }</pre>	

### QUESTION 65

Drag and Drop Question

You have a webpage that includes the following markup:

```
<!DOCTYPE html>
<html>
  <head>
    <script>
    </script>
  </head>
  <body onload="readXMLFile()">
    <div id="to"></div>
    <div id="from"></div>
    <div id="message"></div>
  </body>
</html>
```

An XML file named message.xml resides on a web server. The structure of the file is as follows:



```
<?xml version="1.0" encoding="utf-8"?>
<messages>
  <to>JHartono@contoso.com</to>
  <from>JDow@contoso.com</from>
  <message>Meeting is cancelled</message>
</messages>
```

You are developing a code-based solution to parse the contents of the XML file and display the information on the page.

The solution must work on both modern and older browsers.

You need to display the information from the XML file onto the page.

How should you create the JavaScript code? (Develop the solution by selecting the required code segments and arranging them in the correct order. You may not need all of the code segments.)

	Answer Area
<pre>document.getElementById("to").innerHTML = xmlDoc.getElementsByTagName("to") [0].childNodes[0].nodeValue; document.getElementById("from").innerHTML = xmlDoc.getElementsByTagName("from") [0].childNodes[0].nodeValue; document.getElementById("message").innerHTML = xmlDoc.getElementsByTagName("body") [0].childNodes[0].nodeValue;</pre>	
<pre>xmlhttp = new ActiveXObject ("Microsoft.XMLHTTP");</pre>	
<pre>else {</pre>	
<pre>xmlhttp = new XMLHttpRequest();</pre>	
<pre>xmlhttp.open("GET", "message.xml", false);</pre>	
<pre>if (window.XMLHttpRequest) {</pre>	
<pre>xmlDoc = xmlhttp.responseXML;</pre>	
<pre>function readXMLFile() {</pre>	
<pre>xmlhttp.send();</pre>	

**Answer:**

	Answer Area
<pre>document.getElementById("to").innerHTML = xmlDoc.getElementsByTagName("to") [0].childNodes[0].nodeValue; document.getElementById("from").innerHTML = xmlDoc.getElementsByTagName("from") [0].childNodes[0].nodeValue; document.getElementById("message").innerHTML = xmlDoc.getElementsByTagName("body") [0].childNodes[0].nodeValue;</pre>	<pre>if (window.XMLHttpRequest) {</pre>
<pre>xmlhttp = new ActiveXObject ("Microsoft.XMLHTTP");}</pre>	<pre>xmlhttp = new XMLHttpRequest();}</pre>
<pre>else {</pre>	<pre>else {</pre>
<pre>xmlhttp = new XMLHttpRequest();}</pre>	<pre>xmlhttp.open("GET", "message.xml", false);</pre>
<pre>xmlhttp.open("GET", "message.xml", false);</pre>	<pre>xmlhttp.send();</pre>
<pre>if (window.XMLHttpRequest) {</pre>	<pre>xmlhttp = new ActiveXObject ("Microsoft.XMLHTTP");}</pre>
<pre>xmlDoc = xmlhttp.responseXML;</pre>	<pre>xmlhttp.open("GET", "message.xml", false);</pre>
<pre>function readXMLFile() {</pre>	<pre>xmlhttp.send();</pre>
<pre>xmlhttp.send();</pre>	<pre>xmlDoc = xmlhttp.responseXML;</pre>

**QUESTION 66**

## Hotspot Question

You review a web form that contains the following markup and code:

```
<!DOCTYPE html>  
<html>  
  <head>  
    <script type="text/javascript">  
      function check1(currentTextBox) {  
        if (currentTextBox.value === null || currentTextBox.value === '')  
          currentTextBox.style.background = '#fffacd';  
        else  
          currentTextBox.style.background = '#ffffff';  
      }  
      function check2() {  
        var obj = document.getElementsByTagName('input');  
        for (var i = 0; i < (obj.length - 1); i++) {  
          obj[i].style.background = '#fffacd';  
        }  
      }  
    </script>  
  </head>  
  <body>  
    <input type="text" id="text1" onfocus="check1(this)" onblur="check1(this)">  
    <input type="text" id="text2" onfocus="check1(this)" onblur="check1(this)">  
    <input type="button" value="next" onclick="check2()">  
  </body>  
</html>
```



You need to ascertain how the webpage responds when it loads and how it reacts to user actions. For each statement in the table, select Yes if the code segment above causes the page to behave as described. Select No if it does not. Make only one selection in each column.

Yes	No	Description of behavior
<input type="radio"/>	<input type="radio"/>	Both text boxes are displayed with a yellow background when the page loads.
<input type="radio"/>	<input type="radio"/>	The background color of both text boxes changes to yellow each time the text boxes receive the focus.
<input type="radio"/>	<input type="radio"/>	If a text box contains a value, the background color of the text box changes to white each time the text box loses the focus.

**Answer:**

Yes	No	Description of behavior
<input type="radio"/>	<input checked="" type="radio"/>	Both text boxes are displayed with a yellow background when the page loads.
<input type="radio"/>	<input checked="" type="radio"/>	The background color of both text boxes changes to yellow each time the text boxes receive the focus.
<input checked="" type="radio"/>	<input type="radio"/>	If a text box contains a value, the background color of the text box changes to white each time the text box loses the focus.

### QUESTION 67

Hotspot Question

You test a webpage that contains the following JavaScript code:

```
<script type="text/javascript">
  onerror = unhandled;
  function unhandled(msg, url, line) {
    alert('There has been an unhandled exception.');
```

The webpage also contains the following markup:

```
Integer 1: <input type="text" id="int1" /><br />
Integer 2: <input type="text" id="int2" /><br /><br />
<input type="button" name="add" value="Add" onclick="add();" />
<input type="button" name="divide" value="Divide" onclick="divide();" />
```

You need to ascertain how the webpage responds when the user enters characters and then clicks the add and divide buttons.

For each statement in the table, select Yes if the action causes the webpage to behave as

described. Select No if it does not. Make only one selection in each column.

Yes	No	Description of Behavior
<input type="radio"/>	<input type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the number <b>3</b> in the <b>int2</b> textbox, and then clicks the <b>add</b> button, the webpage displays an alert message with a value of 5.
<input type="radio"/>	<input type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the number <b>0</b> in the <b>int2</b> textbox, and then clicks the <b>divide</b> button, the unhandled JavaScript function runs.
<input type="radio"/>	<input type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the letter <b>a</b> in the <b>int2</b> textbox, and then clicks the <b>divide</b> button, the unhandled JavaScript function runs.

**Answer:**

Yes	No	Description of Behavior
<input type="radio"/>	<input checked="" type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the number <b>3</b> in the <b>int2</b> textbox, and then clicks the <b>add</b> button, the webpage displays an alert message with a value of 5.
<input type="radio"/>	<input checked="" type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the number <b>0</b> in the <b>int2</b> textbox, and then clicks the <b>divide</b> button, the unhandled JavaScript function runs.
<input checked="" type="radio"/>	<input type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the letter <b>a</b> in the <b>int2</b> textbox, and then clicks the <b>divide</b> button, the unhandled JavaScript function runs.

#### QUESTION 68

An HTML page contains no embedded JavaScript or CSS code. The body of the page contains only the following line of code.

```
<p id="test">test</p>
```

A CSS style sheet must be applied dynamically. The style must visibly change the appearance of the paragraph on the page.

You need to apply a style the paragraph.

Which line of code should you use?

- A. document.getElementById("test").style.border = "0";
- B. document.getElementById("test").style.position = "static";
- C. document.getElementById ("test").style.padding = "15px";
- D. document.getElementById("test").style.top = "5px";

**Answer: A**

**Explanation:**

A: The border shorthand property sets all the border properties in one declaration.

The properties that can be set, are (in order): border-width, border-style, and border-color.

It does not matter if one of the values above are missing, e.g. border:solid #ff0000; is allowed.

#### QUESTION 69

You develop an HTML5 web application. The web application contains a form that allows users to enter only their month of birth.

The value that the users enter must be numbers between 1 and 12, inclusive.

You need to implement the form element for the month of birth.

Which element should you use?

- A. <input type="time" options="month" />
- B. <input types="submit" value="month" />
- C. <input type="range" min="1" max="12" />
- D. <input type="month" itemscope="numeric" />

**Answer: C**

**Explanation:**

Example:

```
</head>
<body>
<input          type="range"          name="rangeInput"          min="0"          max="100"
onchange="updateTextInput(this.value);">
<input type="text" id="textInput" value="">
</body>
</html>
```

### QUESTION 70

You are developing an HTML5 web application for an architectural company that displays architectural blueprints.

The application must:

- Display the blueprints at different zoom levels without loss of detail
- Print the blueprints without loss of detail
- Work from only one source file per blueprint

You need to ensure that blueprints display according to the requirements.

Which HTML5 element should you use?

- A. CANVAS
- B. SAMP
- C. SVG
- D. AREA

**Answer: C**

### QUESTION 71

You develop an HTML5 application that allows users to upload files from their local computers.

The user interface must remain responsive during the upload.

You need to implement the file upload functionality for the application.

Which two actions should you perform? (Each correct answer presents a complete solution. Choose two.)

- A. Use an HTML form with a file type INPUT element that targets a hidden IFRAME element.
- B. Use a file type INPUT element, and then use the Web Storage API to upload the file.
- C. Use a FormData object and upload the file by using XMLHttpRequest.
- D. Register the file protocol by using protocol handler registration API and then upload the file by using XMLHttpRequest.
- E. Use the FileSystem API to load the file, and then use the jQuery post method to upload the file to the server.

**Answer: BD**

**Explanation:**

B: Example (notice the web storage api upload.aspx):

```
<!DOCTYPE html>
<html>
```

```
<head>
<title>Upload Files using XMLHttpRequest - Minimal</title> </head>
<body>
<form id="form1" enctype="multipart/form-data" method="post" action="Upload.aspx"> <div
class="row">
<label for="fileToUpload">Select a File to Upload</label><br /> <input type="file"
name="fileToUpload" id="fileToUpload" onchange="fileSelected();" /> </div>
<div id="fileName"></div>
<div id="fileSize"></div>
<div id="fileType"></div>
<div class="row">
<input type="button" onclick="uploadFile()" value="Upload" /> </div>
<div id="progressNumber"></div>
</form>
</body>
</html>
```

D:

\* Because we're using XMLHttpRequest, the uploading is happening in the background. The page the user is on remains intact. Which is a nice feature to have if your business process can work with it.

\* The XMLHttpRequest object has gotten a facelift in the Html5 specifications. Specifically the XMLHttpRequest Level 2 specification (currently the latest version) that has included the following new features:

Handling of byte streams such as File, Blob and FormData objects for uploading and downloading

Progress events during uploading and downloading Cross-origin requests

Allow making anonymous request - that is not send HTTP Referer The ability to set a Timeout for the Request

### **QUESTION 72**

You are developing a web application that can function when users are not connected to the Internet.

You need to check the Internet connectivity status of a user's browser.

Which method should you use?

☐ A. 

```
function checkConnection()
{
    if (navigator.isOnline) {
        ...
    }
}
```

☐ B. 

```
function checkConnection()
{
    if (browser.isOnline) {
        ...
    }
    else
    {
        ...
    }
}
```

☐ C. 

```
function checkConnection()
{
    if (browser.online) {
        ...
    }
    else
    {
        ...
    }
}
```

☐ D. 

```
function checkConnection()
{
    if (navigator.online) {
        ...
    }
    else
    {
        ...
    }
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: A**

#### **QUESTION 73**

You are creating a page that contains detailed employee information for a company portal. The



page uses a jQuery library. The page contains a hidden button named btnEdit that is defined by the following code.

```
<button id="btnEdit" style="display: none;">Edit</button>
```

The button is not displayed by default.

The button must be displayed only if the user is logged on.

You need to add code to the document.ready() function to meet the requirements for the button.

Which line of code should you use?

- A. `$(`#btnEdit').appear();`
- B. `$(`#btnEdit').visible = true;`
- C. `$(`#btnEdit').show();`
- D. `$(`#btnEdit').Visible();`

**Answer: A**

#### QUESTION 74

Hotspot Question

You troubleshoot a webpage that includes the following code segment:

```
var customer = function () {
    var name = "Contoso";
    return {
        getName: function () {
            return name;
        },
        setName: function (newName) {
            name = newName;
        }
    };
}();
alert(customer.name);
```

You need to evaluate the value of the variable named customer.name.

For each statement in the table, select Yes if the code segment above causes the variable to evaluate as described. Select No if it does not. Make only one selection in each column.

Yes	No	Description of customer.name variable
<input type="radio"/>	<input type="radio"/>	An error will be thrown
<input type="radio"/>	<input type="radio"/>	Contoso
<input type="radio"/>	<input type="radio"/>	undefined
<input type="radio"/>	<input type="radio"/>	null
<input type="radio"/>	<input type="radio"/>	false

**Answer:**

Yes	No	Description of customer.name variable
<input type="radio"/>	<input checked="" type="radio"/>	An error will be thrown
<input type="radio"/>	<input checked="" type="radio"/>	Contoso
<input checked="" type="radio"/>	<input type="radio"/>	undefined
<input type="radio"/>	<input checked="" type="radio"/>	null
<input type="radio"/>	<input checked="" type="radio"/>	false

### QUESTION 75

#### Hotspot Question

You develop an HTML5 webpage that contains the following markup and code:

```
<form>
  <label for='city'>City:</label>
  <select id='city'>
    <option>Please Choose</option>
    <option>Moscow</option>
    <option>London</option>
    <option>Paris</option>
  </select>
  <input type='button' id='submit' value='Submit'
  onclick='madeSelection(document.getElementById('city'), 'Please Select A City')' />
</form>
```

You have the following requirements:

- Display a message if users select the first OPTION element, and then submit the form.
- Do not display an alert message if users select any other OPTION element, and then submit the form.

You need to implement the madeSelection() function.

How should you complete the relevant code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)

```
function madeSelection(element, message) {
  [v]
  alert(message);
  [v]
  [v]
} else {
  [v]
}
}
```

```
function madeSelection(element, message) {
```

```
    if (element.id === 0) {  
        if (element.value === "-1") {  
            if (element.text === "Please Choose") {  
                if (element.value === "Please Choose") {
```

```
                    alert(message);
```

```
                    element.clear();  
                    element.focus();
```

```
                }  
                return true;  
                return false;
```

```
            } else {
```

```
                return true;  
                return false;
```

```
    }
```

**Answer:**

```
function madeSelection(element, message) {
```

```
    if (element.id === 0) {  
        if (element.value === "-1") {  
            if (element.text === "Please Choose") {  
                if (element.value === "Please Choose") {
```

```
                    alert(message);
```

```
                    element.clear();  
                    element.focus();
```

```
                }  
                return true;  
                return false;
```

```
            } else {
```

```
                return true;  
                return false;
```

```
    }
```

**QUESTION 76**

Hotspot Question


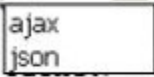
You develop a webpage that consumes a web service. The web service provides currency exchange rates. Visitors enter the currency type on the webpage and press the Submit button.


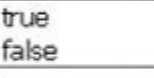
The web service returns the current exchange rate.

You need to ensure that the webpage always displays the most current information.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<script type="text/javascript">
    var currencyRate;
    function getExchangeRate() {

$.  ((
    

    cache: ,
        

        type: 'GET',
        url: "CurrencyConverter.asmx/GetExchangeRate",
        data: { 'currencyType': getCurrencyType() },
        dataType: 'json',
        success: function (result) {
            currencyRate = result;
        }
    });
}

function getCurrencyType() {
    return "USD";
}
</script>
```

**Answer:**

```
<script type="text/javascript">
    var currencyRate;
    function getExchangeRate() {
        $.ajax({
            cache: false,
            type: 'GET',
            url: "CurrencyConverter.asmx/GetExchangeRate",
            data: { 'currencyType': getCurrencyType() },
            dataType: 'json',
            success: function (result) {
                currencyRate = result;
            }
        });
    }

    function getCurrencyType() {
        return "USD";
    }
</script>
```

### QUESTION 77

Hotspot Question

You develop a webpage.

The layout of the webpage must resemble the following image:



You need to ensure that the page renders properly.



How should you complete the relevant CSS styles? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<!DOCTYPE html>
<head>
  <style>

    #span1 {  ; color: red;}


    #span2 {  ; top: 200px;

    left: -100px; height: 130px; width: 130px;
    color: green;}


  </style>
</head>
<body>
  <p>Start of main contents.
    <span id=span1> Start of span1 contents.
    <span id=span2> Span2 contents.</span>
    End of span1 contents.</span>
    End of main contents.
  </p>
</body>
</html>
```

**Answer:**

```
<!DOCTYPE html>
<head>
  <style>

    #span1 {  ; color: red;}

    z-index: 1
    float: left
    position: relative
    position: absolute

    #span2 {  ; top: 200px;

    z-index: 2
    float: right
    position: relative
    position: absolute

    left: -100px; height: 130px; width: 130px;
    color: green;}
  </style>
</head>
<body>
  <p>Start of main contents.
    <span id=span1> Start of span1 contents.
    <span id=span2> Span2 contents.</span>
    End of span1 contents.</span>
    End of main contents.
  </p>
</body>
</html>
```

#### QUESTION 78

Hotspot Question

A company has an XML file named products.xml on a web server. The file contains a list of the products that the company sells.

You need to display the contents of the products.xml file in a DIV element named Output.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<html>
<head>
  <script lang="JavaScript">
    function DataHandler()
      var webReq = new XMLHttpRequest; {

      if (webReq.  ==  ) {
        abort
        open
        status
        readyState

        false
        true
        2
        3
        4

      if (webReq.status ==  ) {
        100
        200
        400
        500

        document.getElementById("Output").innerHTML =
          (webReq.responseText);}}}
    var webReq = getXMLHttpRequest();
    if (webReq != null) {
      webReq.open
      ("GET", "http://localhost/products.xml", true);
      webReq.onreadystatechange = DataHandler;
      webReq.send();}
  </script>
</head>
<body>
  <div id="Output"> </div>
</body>
</html>
```

**Answer:**

```
<html>
<head>
  <script lang="JavaScript">
    function DataHandler()
      var webReq = new XMLHttpRequest; {

      if (webReq.  ==  ) {

        if (webReq.status ==  ) {

          document.getElementById("Output").innerHTML =
            (webReq.responseText);}}
      var webReq = getXMLHttpRequest();
      if (webReq != null) {
        webReq.open
        ("GET", "http://localhost/products.xml", true);
        webReq.onreadystatechange = DataHandler;
        webReq.send();}

    </script>
  </head>
  <body>
    <div id="Output"> </div>
  </body>
</html>
```

**QUESTION 79**

You are developing an application that analyzes population data for major cities in the United States. The application retrieves population statistics for a city by using a web service. You need to request data from the web service by using jQuery. Which code segment should you use?

- ☐ A. `$.ajax({  
    url: "Services/WSAjax.aspx/GetPopulationCity?city='Boston'",  
    dataType: "text", type: "POST"  
});`
- ☐ B. `$.ajax({  
    url: "Services/WSAjax.aspx/GetPopulationCity",  
    dataType: "text", type: "SEND", data: { city: "Boston" }  
});`
- ☐ C. `$.ajax({  
    url: "Services/WSAjax.aspx/GetPopulationCity?city='Boston'",  
    dataType: "text", type: "SEND"  
});`
- ☐ D. `$.ajax({  
    url: "Services/WSAjax.aspx/GetPopulationCity",  
    dataType: "text", type: "POST", data: { city: "Boston" }  
});`

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer: D**

#### QUESTION 80

You are developing a blog web page that is being optimized for accessibility. The page includes the following HTML.

```
<body>  
  
    <h1>Blog Post Title</h1>  
    <h2>Subtitle</h2>  
    <h3>Authors Byline</h3>  
  
</body>
```

The heading tags represent a blog post title, a blog post subtitle, and the author's name. You need to ensure that the three headings are treated as a unit but retain their individual formatting. Which tags should you use to wrap the H1, H2, and H3 elements?

- A. `<group> </group>`  
B. `<header> </header>`  
C. `<hgroup> </hgroup>`  
D. `<headings> </headings>`

**Answer: C**

#### QUESTION 81

You develop a web application by using jQuery. You develop the following jQuery code:

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<http://www.passleader.com/70-480.html>



(Line numbers are included for reference only.)

```
01 <script>
02   $(document).ready(function () {
03     $('#submit').click(function () {
04       $.ajax({
05
06         data: $('#myForm').serialize(),
07         success: function (result) {
08           $('#result').text(result.message);
09         }
10       });
11     });
12   });
13 </script>
```

The web application exposes a RESTful web API that has an endpoint of /product/create.

You need to create a new product by using AJAX.

Which code segment should you insert at line 05?

- ☐ A. `type: "POST",`  
`dataType: "xml",`  
`contentType: "application/x-www-form-urlencoded; charset=UTF-8",`  
`url: "/product/create",`
- ☐ B. `type: "GET",`  
`dataType: "xml",`  
`contentType: "application/x-www-form-urlencoded; charset=UTF-8",`  
`url: "/product/create",`
- ☐ C. `type: "POST",`  
`dataType: "json",`  
`contentType: "application/json",`  
`url: "/product/create/post",`
- ☐ D. `type: "POST",`  
`dataType: "json",`  
`url: "/product/create",`

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer: D**

### QUESTION 82

You develop a webpage that allows a user to download a 3PEG image and convert it to a PNG file. You need to implement the code to download the contents of the JPEG image with no additional decoding.

Which JavaScript function should you use?

- A. `readAsBinaryString()`
- B. `readAsArrayBuffer()`
- C. `readAsDataURL()`
- D. `readAsText()`

**Answer: B**

**QUESTION 83**

You are modifying a blog site to improve search engine readability.  
You need to group relevant page content together to maximize search engine readability.  
Which tag should you use?

- A. `<article>`
- B. `<span>`
- C. `<tbody>`
- D. `<cd>`

**Answer: A**

**Explanation:**

How the Changes in HTML 5 Will Affect SEO (Search Engine Optimization)?

As a SEO expert, you are most likely interested mainly in those changes in the HTML 5 specification, which will affect your work. Here is one of them:

A new `<article>` tag. The new `<article>` tag is probably the best addition from a SEO point of view. The `<article>` tag allows to mark separate entries in an online publication, such as a blog or a magazine. It is expected that when articles are marked with the `<article>` tag, this will make the HTML code cleaner because it will reduce the need to use `<div>` tags. Also, probably search engines will put more weight on the text inside the `<article>` tag as compared to the contents on the other parts of the page.

**QUESTION 84**

Drag and Drop Question

You are developing a shared library to format information. The library contains a method named `_private`.

The `_private` method must never be called directly from outside of the shared library.

You need to implement an API for the shared library.

How should you complete the relevant code? (Develop the solution by selecting the required code segments and arranging them in the correct order. You may not need all of the code segments.)

Answer Area

```
Formatter.prototype.parseValue =  
function (input) {  
    return _private(input);  
}
```

```
prototype.parseValue = _private(input);
```

```
this._private = function (data) {  
    return custom(data);  
}
```

```
}
```

```
return {  
    parseValue: function (input)  
    { return _private(); }  
}
```

```
function getFormatter() {
```

```
var _private = function (data) {  
    return custom(data);  
};
```

```
this.parseValue = function (input) {  
    return _private(input);  
};
```

```
$('#parseValue') = function (input) {  
    return _private(input);  
};
```

**Answer:**

	Answer Area
<pre>Formatter.prototype.parseValue = function (input) {     return _private(input); }</pre>	<pre>function getFormatter() {</pre>
<pre>prototype.parseValue = _private(input);</pre>	<pre>    Formatter.prototype.parseValue =     function (input) {         return _private(input);     }</pre>
<pre>this._private = function (data) {     return custom(data); }</pre>	<pre>this._private = function (data) {     return custom(data); }</pre>
<pre>}</pre>	<pre>}</pre>
<pre>return {     parseValue: function (input)     { return _private(); } }</pre>	
<pre>function getFormatter() {</pre>	
<pre>    var _private = function (data) {         return custom(data);     }; };</pre>	
<pre>this.parseValue = function (input) {     return _private(input); };</pre>	
<pre>\$('#parseValue') = function (input) {     return _private(input); };</pre>	

#### QUESTION 85

You develop an HTML application that contains a table that displays a list of products. The table is defined with the following HTML markup:

```
<table>
  <thead>
    <tr>
      <th>Product</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Adjustable Race</td>
    </tr>
    <tr>
      <td>Blade</td>
    </tr>
    <tr>
      <td>Chainring</td>
    </tr>
    <tr>
      <td>Down Tube</td>
    </tr>
  </tbody>
</table>
```

You must style the table to look like the following image:

Product
Adjustable Race
Blade
Chainring
Down Tube

You need to implement the CSS selectors to select the rows that must have a blue background. Which CSS selector should you use?

- A. `thead:only-child, tbody:after, table:before`
- B. `tr [line | -0, 1, 3]`
- C. `tr:first-of-type, tr:last-of-type`
- D. `tr:first-line, tr:last-child`

**Answer: B**

**Explanation:**

Header (line 0), first line and third line.

#### QUESTION 86

You develop a webpage by using HTML5. You create the following markup:

```
<input type="url" name="website" required="required" />
```

You need to ensure that the value that the user enters contains a secure URL.

What should you do?

- A. Add the following attribute to the input tag: `value="https://v`
- B. Add the following attribute to the input tag: `pattern="https://.+"`



- C. Add the following attribute to the input tag: value="ssl"
- D. Add the following attribute to the input tag: itemtype="https"

**Answer: B**

**Explanation:**

Note:

- \* The pattern attribute is supported in Internet Explorer 10, Firefox, Opera, and Chrome.
- \* The pattern attribute specifies a regular expression that the <input> element's value is checked against.
- \* The pattern attribute works with the following input types: text, search, url, tel, email, and password

#### QUESTION 87

You develop a webpage by using HTML5. You create the following markup and code: (Line numbers are included for reference only.)

```
01 <head>
02   <script>
03     function removeInvalid(input) {
04
05     }
06   </script>
07 </head>
08 <body>
09   Given Name: <input type="text" id="GivenName" onblur="removeInvalid(this);" />
10   Surname: <input type="text" id="Surname" onblur="removeInvalid(this);" />
11 </body>
```

You need to ensure that the values that users enter are only numbers, letters, and underscores, regardless of the order.

Which code segment should you insert at line 04?

- ☐ A. 

```
if (!/^([A-Za-z0-9_])+$/.test(input.value))
    input.value = "Invalid";
```
- ☐ B. 

```
if (!/^[^A-Za-z0-9_]/.test(input.value))
    input.value = "Invalid";
```
- ☐ C. 

```
var regEx = new RegExp("^\\w");
if (!input.value.match(regEx))
    input.value = "Invalid";
```
- ☐ D. 

```
var regEx = "[\\w\\d]";
if (!input.value.match(regEx))
    input.value = "Invalid";
```

- A. Option A
- B. Option B
- C. Option C

D. Option D

**Answer: A**

**Explanation:**

Example:

Sometimes situations arise when user should fill a single or more than one fields with alphabet characters (A-Z or a-z) in a HTML form. You can write a JavaScript form validation script to check whether the required field(s) in the HTML form contains only letters. - See more at: <http://www.w3resource.com/javascript/form/all-letters-field.php#sthash.5Db50Bdm.dpuf>

Javascript function to check for all letters in a field view plainprint?

```
function allLetter(inputtxt)
{
var letters = /^[A-Za-z]+$/;
if(inputtxt.value.match(letters))
{
return true;
}
else
{
alert("message");
return false;
}
}
```

To get a string contains only letters (both uppercase or lowercase) we use a regular expression (/^[A-Za-z]+\$/) which allows only letters. Next the match() method of string object is used to match the said regular expression against the input value. Here is the complete web document.

- See more at: <http://www.w3resource.com/javascript/form/all-letters-field.php#sthash.5Db50Bdm.dpuf>

### QUESTION 88

Hotspot Question

You develop an interactive scalable vector graphics (SVG) application. You write the following HTML markup that makes a rectangle rotate:

```
<svg width="200px" height="200px">
  <g transform="translate(400, 400)" id="myImage">
    <rect id="mySquare" x="-10" y="-10" width="20" height="20" color="blue" />
  </g>
</svg>
<input id="speed" type="text" value="10" />
<button id="zoom" onclick="startAnimation();">Start</button>
```

You need to control the speed of the rotating rectangle.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<script>
    var squareShape;
    var myTimer;

    function startAnimation () {

        squareShape=
        document.myImage;
        document.mySquare;
        document.getElementById("myImage");
        document.getElementById("mySquare");

        squareShape.currentTheta = 0;

        myTimer=
        speed.value;
        myTimer.interval (speed.value);
        setTimer(animateImage, speed.value);
        new timer(animateImage, speed.value);

        animateImage();
    }

    function animateImage() {

        setInterval(animateImage, speed.value);
        squareShape.setAttribute("rotate", "angle("
        squareShape.setAttribute("transform", "angle("
        squareShape.setAttribute("transform", "rotate("
        squareShape.setAttribute("mySquare", "transform("

        + squareShape.currentTheta + ")");
        squareShape.currentTheta += 0.1;
    }
</script>
```

**Answer:**

```
<script>
  var squareShape;
  var myTimer;

  function startAnimation () {

    squareShape=
    document.myImage;
    document.mySquare;
    document.getElementById("myImage");
    document.getElementById("mySquare");

    squareShape.currentTheta = 0;

    myTimer=
    speed.value;
    myTimer.interval (speed.value);
    setTimer(animateImage, speed.value);
    new timer(animateImage, speed.value);

    animateImage();
  }

  function animateImage() {

    setInterval(animateImage, speed.value);
    squareShape.setAttribute("rotate", "angle("
    squareShape.setAttribute("transform", "angle("
    squareShape.setAttribute("transform", "rotate("
    squareShape.setAttribute("mySquare", "transform("

    + squareShape.currentTheta + ")");
    squareShape.currentTheta += 0.1;
  }
</script>
```

**QUESTION 89**

On which panel can you see a hierarchically structured view of the DOM?

- A. Live DOM
- B. Projects
- C. Assets

D. Device

**Answer: A**

**QUESTION 90**

Which panel can you use to access a list of the HTML elements, controls, and media that can be added to an HTML page that is open in the artboard?

- A. Projects
- B. Assets
- C. Device
- D. Live DOM

**Answer: B**

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