Vendor: Microsoft

Exam Code: 70-480

Exam Name: Programming in HTML5 with JavaScript and CSS3

Version: Demo

QUESTION 1
DRAG DROP
You are validating user input by using JavaScript and regular expressions.

A group of predefined regular expressions will validate two input fields:

▪ An email address in a function named validateEmail (for example, firstname@contoso.com)
▪ A nine-digit number that allows optional hyphens after the second and fifth character in a function named validateSSN(for example, 555555555 or 555-55- 5555)

You need to use the correct expression to validate the input.

Which expression should you insert into each function? (To answer, drag the appropriate regular expression statement to the correct location. Each regular expression statement may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
/^\d{1,2}(\-|\/|\.)\d{1,2}\1\d{4}$/;
```

```
/^[0-9]{3}\^?[0-9]{2}\^?[0-9]{4}$/;
```

```
/^[0-9]{0}\^*[0-9]{2}\^*[0-9]{4}$/;
```

```
/^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
```

```
/^[0-9{3}+@[a-zA-Z0-9.-]+\.[0-9]{2,4}$/;
```

Answer Area

```
function validateSSN(userinput) {
    var ssnPattern =



    return ssnPattern.test(userinput);
}
```

```
function validateEmail(userinput){
    var emailPattern =



    return emailPattern.test(userinput);
}
```

Correct Answer:

```
/^\d{1,2}(\-|\/|\.)\d{1,2}\1\d{4}$/;
```

```
/^[0-9]{3}\^?[0-9]{2}\^?[0-9]{4}$/;
```

```
/^[0-9]{0}\^*[0-9]{2}\^*[0-9]{4}$/;
```

```
/^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
```

```
/^[0-9{3}+@[a-zA-Z0-9.-]+\.[0-9]{2,4}$/;
```

Answer Area

```
function validateSSN(userinput) {
  var ssnPattern =
        /^[0-9]{3}\^?[0-9]{2}\^?[0-9]{4}$/;

  return ssnPattern.test(userinput);
}


function validateEmail(userinput){
  var emailPattern =
        /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;

  return emailPattern.test(userinput);
}
```

QUESTION 2
You are developing a customer web form that includes the following HTML.

<input id="txtValue" type="text" />

A customer must enter a valid age in the text box prior to submitting the form.

You need to add validation to the control.

Which code segment should you use?

A.
```
function validate() {
    var value = $("#txtValue").text();
    var regex = /^[\d\,\.]*$/;
    if (!regex.test(value) || name == "")
        alert("please enter valid value");
    return;
}
```

B.
```
function validate() {
    var name = $("#txtValue").val();
    if (name == null || name == "")
        alert("please enter valid value");
    return;
}
```

C.
```
function validate() {
    var name = $("#txtValue").text();
    if (name == null || name == "")
        alert("please enter valid value");
    return;
}
```

D.
```
function validate() {
    var value = $("#txtValue").val();
    var regex = /^[\d\,\.]*$/;
    if (!regex.test(value) || value == "")
        alert("please enter valid value");
    return;
}

    return emailPattern.test(userinput);
}
```

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

Correct Answer: D

QUESTION 3
You are developing a customer contact form that will be displayed on a page of a company's website. The page collects information about the customer.

If a customer enters a value before submitting the form, it must be a valid email address.

You need to ensure that the data validation requirement is met.

What should you use?

A. <input name="email" type="url"/>
B. <input name="email" type="text" required="required"/>
C. <input name="email" type="text"/>
D. <input name="email" type="email"/>

Correct Answer: D
Explanation:
http://www.w3schools.com/html/html5_form_input_types.asp

QUESTION 4
DRAG DROP
You are developing a form that captures a user's email address by using HTML5 and jQuery.

The form must capture the email address and return it as a query string parameter. The query string parameter must display the @ symbol that is used in the email address.

You need to implement this functionality.

How should you develop the form? (To answer, drag the appropriate code segment to the correct target or targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
str = $("form").serialize();

str = decodeURIComponent(str);

str = $("form").contents.toString();

str = $("form").toLocaleString();

str = decodeURI(str);
```

```html
<!DOCTYPE html>
<html>
<head>
  <script src="http://code.jquery.com/jquery-latest.js"></script>
</head>
<body>
  <form>
    <input type="text" name="email" />
    <input type="submit" value="Submit" />
  </form>
  <script>
    $("form").submit(function () {
      var str;



      return true;
    });
  </script>
</body>
</html>
```

Correct Answer:

```
str = $("form").serialize();

str = decodeURIComponent(str);

str = $("form").contents.toString();

str = $("form").toLocaleString();

str = decodeURI(str);
```

```html
<!DOCTYPE html>
<html>
<head>
  <script src="http://code.jquery.com/jquery-latest.js"></script>
</head>
<body>
  <form>
    <input type="text" name="email" />
    <input type="submit" value="Submit" />
  </form>
  <script>
    $("form").submit(function () {
      var str;
      str = $("form").serialize();
      str = decodeURIComponent(str);
      return true;
    });
  </script>
</body>
</html>
```

QUESTION 5
You are developing an application that consumes a Windows Communication Foundation (WCF) service.

The application interacts with the service by using the following code. (Line numbers are included for reference only.)

```
01 <script>
02    function getCountry(country) {
03       $.ajax({
04       type: "POST",
05         contentType: "application/json; charset=utf-8",
06         url: "http://contoso.com/Service.svc/GetCountry",
07         data: '{"Country":' + country + '}',
08         dataType: "json",
09         success: OnSuccess,
10         error: OnError
11
12       });
13    }
14    function OnSuccess(data, status) {
15    ...
16    }
17    function OnError(request, status, error) {
18    ...
19    }
20 </script>
```

You need to authenticate to the WCF service.

What should you do?

A. At line 11, add the following lines of code.
    ,username: yourusername
    ,password: yourpassword
B. At line 11, add the following line of code.
    ,credentials: prompt
C. At line 06, replace the code with the following line of code. url:
    "http://contoso.com/Service.svc/GetCountry? Username=username&password=psssword",
D. At line 11, add the following line of code. The username and password will be stored in an XML file.
    ,credentials: credentials.xml

Correct Answer: A
Explanation:
http://msdn.microsoft.com/en-us/library/ie/hh673558(v=vs.85).aspx

QUESTION 6
You are developing a web page that enables customers to upload documents to a web server.
The page includes an HTML5 PROGRESS element named progressBar that displays information
about the status of the upload.

The page includes the following code. (Line numbers are included for reference only.)

```
01 var xhr = new XMLHttpRequest();
02 var progressBar = $("#progressBar");
03
04 function(e) {
05   if (e.lengthComputable) {
06     progressBar.value = (e.loaded / e.total) * 100;
07     progressBar.textContent = progressBar.value;
08   }};
```

An event handler must be attached to the request object to update the PROGRESS element on
the page.

You need to ensure that the status of the upload is displayed in the progress bar.

Which line of code should you insert at line 03?

A. xhr.upload.onloadeddata =
B. xhr.upload.onplaying =
C. xhr.upload.onseeking =
D. xhr.upload.onprogress =

Correct Answer: D
Explanation:
http://stackoverflow.com/questions/3352555/xhr-upload-progress-is-100-from-the-start

QUESTION 7
You are developing a customer web form that includes the following HTML.

<label id="txtValue"X/label>
Information from the web form is submitted to a web service. The web service returns the
following JSON object.

{

"Confirmation": "1234",

"FirstName": "John"

}

You need to display the Confirmation number from the JSON response in the txtValue label field.

Which JavaScript code segment should you use?

A. $("#txtValue").val = (JSONObject.Confirmation);
B. $("#txtValue").val (JSONObject.Confirmation);
C. $("#txtValue").text = (JSONObject.Confirmation);
D. $("#txtValue").text (JSONObject.Confirmation);

Correct Answer: D
Explanation:
http://api.jquery.com/text/

QUESTION 8
HOTSPOT
You are developing a web application that retrieves data from a web service. The data being
retrieved is a custom binary datatype named bint. The data can also be represented in XML.

Two existing methods named parseXml() and parseBint() are defined on the page.

The application must:

▪ Retrieve and parse data from the web service using binary format if possible
▪ Retrieve and parse the data from the web service using XML when binary format is not possible

You need to develop the application to meet the requirements.

What should you do? (To answer, select the appropriate options from the drop-down lists in the
answer area.)

```
var request = $.ajax({
  uri: '/',
```

| if (request.getResponseHeader("Content-Type") == "application/bint") | ▼ |

```
dataFilter: function (data, type) {
```

| if (request.getResponseHeader("Content-Type") == "application/bint") | ▼ |

```
        return parseBint(data);
    else
        return parseXml(data);
  },
  success: function (data) {
    start(data);
  }
});
```

```
var request = $.ajax({
  uri: '/',
```

```
if (request.getResponseHeader("Content-Type") == "application/bint")    ▼
if (request.getResponseHeader("Content-Type") == "application/bint")
if (type == "application/bint")
if (request.mimeType == "application/bint")
accepts: 'application/bint, text/xml',
contentType: 'application/bint, text/xml',
dataType: 'application/bint, text/xml',
```

```
dataFilter: function (data, type) {
```

```
if (request.getResponseHeader("Content-Type") == "application/bint")    ▼
if (request.getResponseHeader("Content-Type") == "application/bint")
if (type == "application/bint")
if (request.mimeType == "application/bint")
accepts: 'application/bint, text/xml',
contentType: 'application/bint, text/xml',
dataType: 'application/bint, text/xml',
```

```
        return parseBint(data);
      else
        return parseXml(data);
    },
    success: function (data) {
      start(data);
    }
});
```

Correct Answer:

```
var request = $.ajax({
    uri: '/',
```

```
if (request.getResponseHeader("Content-Type") == "application/bint")    ▼
if (request.getResponseHeader("Content-Type") == "application/bint")
if (type == "application/bint")
if (request.mimeType == "application/bint")
accepts: 'application/bint, text/xml',
contentType: 'application/bint, text/xml',
dataType: 'application/bint, text/xml',
```

```
dataFilter: function (data, type) {
```

```
if (request.getResponseHeader("Content-Type") == "application/bint")    ▼
if (request.getResponseHeader("Content-Type") == "application/bint")
if (type == "application/bint")
if (request.mimeType == "application/bint")
accepts: 'application/bint, text/xml',
contentType: 'application/bint, text/xml',
dataType: 'application/bint, text/xml',
```

```
            return parseBint(data);
        else
            return parseXml(data);
    },
    success: function (data) {
        start(data);
    }
});
```

QUESTION 9
You are developing a customer web form that includes the following HTML.

<input id = "txtValue" />

A customer must enter a value in the text box prior to submitting the form.

You need to add validation to the text box control.

Which HTML should you use?

A. <input id="txtValue" type="text" required="required"/>
B. <input id="txtValue" type="text" pattern="[A-Za-z]{3}" />
C. <input id="txtValue" type="required" />
D. <input id="txtValue" type="required" autocomplete="on" />

Correct Answer: A
Explanation:
http://www.w3schools.com/html5/att_input_required.asp

QUESTION 10
DRAG DROP
You are developing a web page for runners who register for a race. The page includes a slider control that allows users to enter their age.

You have the following requirements:

▪ All runners must enter their age.
▪ Applications must not be accepted from runners less than 18 years of age or greater than 90 years.
▪ The slider control must be set to the average age (37) of all registered runners when the page is first displayed.

You need to ensure that the slider control meets the requirements.

What should you do? (To answer, drag the appropriate word or number to the correct location in the answer area. Each word or number may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Correct Answer:

range	
slider	
0	
18	
90	
100	
37	
avgAge()	
default	
value	
required	
optional	

```
<input type=" [range]   "
    min=" [18] "        max=" [90]  "

    step="5" [value] =" [37]   "

        [required]    />
```

QUESTION 11
You are developing an HTML5 web application that displays the current temperature whenever a
button is clicked. The following code provides this functionality.

```
function Loader() {
  this.status = "ready";
  this.temp = 50;
  this.updateStatus = function (newStatus) {
   status = newStatus;
  };
}

var loader = new Loader();

$(function () {
  $("#loadTemp").click(function (eventData) {
    loader.temp = loadTemp();
    loader.updateStatus("done");
  });
});
```

When the temperature is loaded, the status property on the loader instance does not change.

You need to ensure that the status property on the loader instance is updated when the
temperature is loaded.

Which code segment should you use to replace the Loader function?

```
○ A.  function Loader () {
          this.status = "ready";
          this.temp = 50;
          this.updateStatus = function (newStatus) {
            this.status = newStatus;
          };
       }
```

```
○ B.  function Loader () {
          this.prototype.status = "ready";
          this.temp = 50;
          this.updateStatus = function (newStatus) {
            this.status = newStatus;
          };
       }
```

```
○ C.  function Loader () {
          status = "ready";
          this.temp = 50;
          this.updateStatus = function (newStatus) {
            status = newStatus;
          };
       }
```

```
○ D.  function Loader () {
          window.status = "ready";
          this.temp = 50;
          this.updateStatus = function (newStatus) {
            status = newStatus;
          };
       }
```

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

Correct Answer: A

QUESTION 12
You are creating a class named Consultant that must inherit from the Employee class. The Consultant class must modify the inherited PayEmployee method. The Employee class is defined as follows.

function Employee() {}

Employee.prototype.PayEmployee = function ( ){

alertt'Hi there!');

}

Future instances of Consultant must be created with the overridden method.

You need to write the code to implement the Consultant class.

Which code segments should you use? (Each correct answer presents part of the solution. Choose two.)

A. Consultant.PayEmployee = function ()
    {
    alert('Pay Consulant');
    }
B. Consultant.prototype.PayEmployee = function () {
    alert('Pay Consultant');
    }
C. function Consultant () {
    Employee.call(this);
    }
    Consultant.prototype = new Employee();
    Consultant.prototype.constructor = Consultant;
D. function Consultant() {
    Employee.call(this); }
    Consultant.prototype.constructor = Consultant.create;

Correct Answer: BC

QUESTION 13
You are modifying an existing web page. The page is being optimized for accessibility. The current page contains the following HTML.

```
<ul>
   <li><a href="">Home</a></li>
   <li><a href="">Sales</a></li>
   <li><a href="">Operations</a></li>
</ul>
```

Standards-compliant screen readers must be able to identify the links contained within the navigation structure automatically.

You need to create the navigation link structure in the page.

With which container tags should you wrap the existing markup?

A.
B. <div id="nav"> </div>
C. <nav> </nav>
D. <map> </map>

Correct Answer: C
Explanation:
http://www.w3schools.com/tags/tag_nav.asp

QUESTION 14
HOTSPOT
You are developing an airline reservation website by using HTML5 and JavaScript. A page on the site allows users to enter departure and destination airport information and search for tickets.

You have the following requirements:

▪ Users must be able to save information in the application about their favorite destination airport.
▪ The airport information must be displayed in the destination text box whenever the user returns to the page.

You need to develop the site to meet the requirements.

Which lines of code should you use? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
<body>
  <input id="txtDest" type="text" />
  <input type="button" value="Submit"
    onclick="storeDestination('txtDest')" />
  <script>
    showDestination();
    function showDestination() {

      var dest = localStorage.destination;                        ▼

      if (dest != null)
        document.getElementById("txtDest").value = dest;
    }

    function storeDestination(id) {
      var dest = document.getElementById(id).value;

      var dest = localStorage.destination;                        ▼

    }
  </script>
</body>
```

```
<body>
  <input id="txtDest" type="text" />
  <input type="button" value="Submit"
     onclick="storeDestination('txtDest')" />
  <script>
    showDestination();
    function showDestination() {
```

var dest = localStorage.destination;	▼
var dest = localStorage.destination;	
localStorage.destination = dest;	
var dest = sessionStorage.destination;	
sessionStorage.destination = dest;	

```
      if (dest != null)
         document.getElementById("txtDest").value = dest;
    }


    function storeDestination(id) {
      var dest = document.getElementById(id).value;
```

var dest = localStorage.destination;	▼
var dest = localStorage.destination;	
localStorage.destination = dest;	
var dest = sessionStorage.destination;	
sessionStorage.destination = dest;	

```
    }
  </script>
</body>
```

Correct Answer:

```
<body>
  <input id="txtDest" type="text" />
  <input type="button" value="Submit"
    onclick="storeDestination('txtDest')" />
  <script>
    showDestination();
    function showDestination() {
```

```
var dest = localStorage.destination;                          ▼
var dest = localStorage.destination;
localStorage.destination = dest;
var dest = sessionStorage.destination;
sessionStorage.destination = dest;
```

```
      if (dest != null)
        document.getElementById("txtDest").value = dest;
    }

    function storeDestination(id) {
      var dest = document.getElementById(id).value;
```

```
var dest = localStorage.destination;                          ▼
var dest = localStorage.destination;
localStorage.destination = dest;
var dest = sessionStorage.destination;
sessionStorage.destination = dest;
```

```
    }
  </script>
</body>
```

QUESTION 15
HOTSPOT
You are developing an HTML5 web application for displaying encyclopedia entries.

Each encyclopedia entry has an associated image that is referred to in the entry.

You need to display the image by using the correct semantic markup.

What should you do? (To answer, select the appropriate options from the drop-down list in the answer area.)
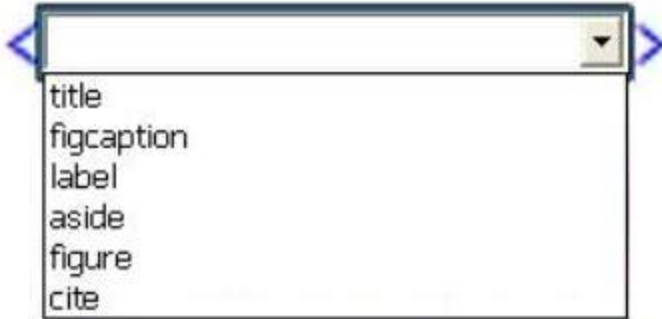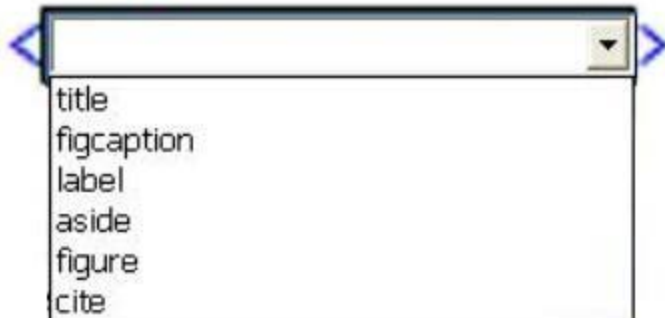
```
<[_____▼]>
<img src="details.png" />
  <[_____▼]>
  Image description
  </[_____▼]>
</[_____▼]>
```
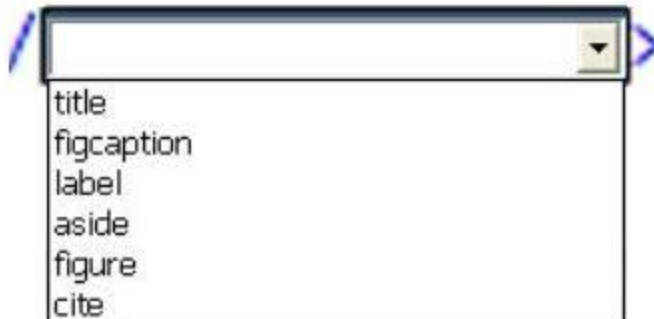
▼	▶

title
figcaption
label
aside
figure
cite

`<img src="details.png" />`

▼	▶

title
figcaption
label
aside
figure
cite

Image description

▼	▶

title
figcaption
label
aside
figure
cite

▼	▶

title
figcaption
label
aside
figure
cite

Correct Answer:

[▼]
- title
- figcaption
- label
- aside
- **figure**
- cite

`<img src="details.png" />`

[▼]
- title
- **figcaption**
- label
- aside
- figure
- cite

Image description

`</` [▼]
- title
- **figcaption**
- label
- aside
- figure
- cite

`/` [▼]
- title
- figcaption
- label
- aside
- **figure**
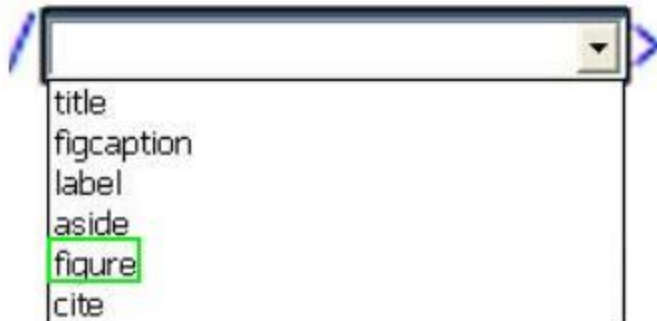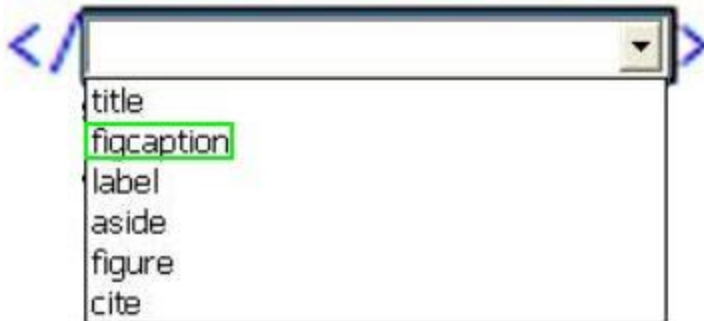- cite
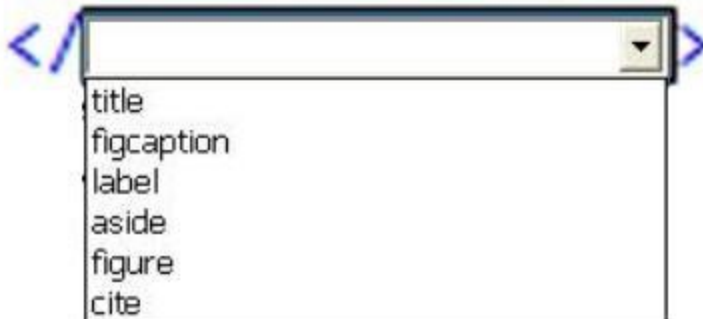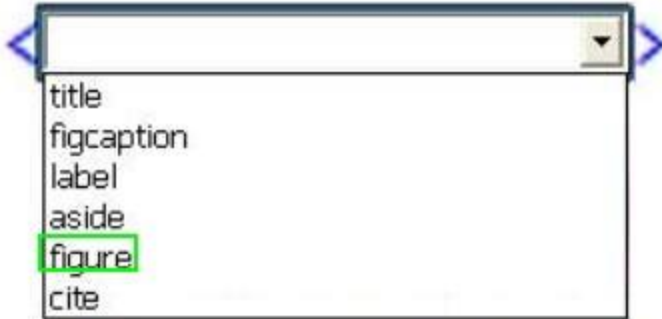
QUESTION 16
You are creating a JavaScript object that represents a customer.

You need to extend the Customer object by adding the GetCommission() method.

You need to ensure that all future instances of the Customer object implement the GetCommission() method.

Which code segment should you use?

```
C A.   Customer.apply.GetCommission() = function()
       {
          alert('payroll');
       }


C B.   Customer.prototype.GetCommission() = function Customer.GetCommission() ()
       {
          alert('payroll');
       }


C C.   Customer.GetCommission() = function (){
          alert('payroll');
       }


C D.   Customer.prototype.GetCommission() = function ()
       {
          alert('payroll');
       }
```

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

Correct Answer: D

QUESTION 17

You are developing a web form that includes the following code.

```
<div id="dynamicForm">
  <input type="checkbox" id="myCheckbox" onclick="ShowInputBox('dynamicForm');" >
</div>
```

When a user selects the check box, an input text box must be added to the page dynamically.

You need to ensure that the text box is added.

Which function should you use?

```
A.    function ShowInputBox(divName)
      {
          var newInputDiv = document.createElement('div');
          newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
          document.getElementById(newInputDiv).appendChild(divName);
      }


B.    function ShowInputBox(divName)
      {
          var newInputDiv = document.createElement('div');
          newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
          document.getElementById(divName).appendChild(newInputDiv);
      }


C.    function ShowInputBox(divName)
      {
          var newInputDiv = document.createElement('div');
          newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
          document.getElementById(divName).applyElement (newInputDiv);
      }


D.    function ShowInputBox(divName)
      {
          var newInputDiv = document.createElement('div');
          newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
          document.getElementById(newInputDiv).applyElement (divName);
      }
```

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

Correct Answer: B

QUESTION 18
HOTSPOT
An HTML page has a canvas element.

You need to draw a red rectangle on the canvas element dynamically. The rectangle should resemble the following graphic.

How should you build the code segment? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
<!DOCTYPE html>

<html>

<body>

    <canvas id="mycanvas" width="300" height="300"></canvas>

    <script type="text/javascript">
        context.fillRect(50, 50, 100, 100);                        ▼

        var context = canvas.getContext('2d');

        context.fillRect(50, 50, 100, 100);                        ▼

        context.fillRect(50, 50, 100, 100);                        ▼
    </script>

</body>

</html>
```

```
<!DOCTYPE html>

<html>

<body>

    <canvas id="mycanvas" width="300" height="300"></canvas>

    <script type="text/javascript">
```

```
context.fillRect(50, 50, 100, 100);                                    ▼
context.fillRect(50, 50, 100, 100);
context.fillStyle = "rgb(255, 0, 0)";
var canvas = document.getElementById('mycanvas');
var canvas = document.BeginPath();
```

```
        var context = canvas.getContext('2d');
```

```
context.fillRect(50, 50, 100, 100);                                    ▼
context.fillRect(50, 50, 100, 100);
context.fillStyle = "rgb(255, 0, 0)";
var canvas = document.getElementById('mycanvas');
var canvas = document.BeginPath();
```

```
context.fillRect(50, 50, 100, 100);                                    ▼
context.fillRect(50, 50, 100, 100);
context.fillStyle = "rgb(255, 0, 0)";
var canvas = document.getElementById('mycanvas');
var canvas = document.BeginPath();
```

```
    </script>

</body>

</html>
```

Correct Answer:

```
<!DOCTYPE html>

<html>

<body>

    <canvas id="mycanvas" width="300" height="300"></canvas>

    <script type="text/javascript">
```

```
context.fillRect(50, 50, 100, 100);                                    ▼
context.fillRect(50, 50, 100, 100);
context.fillStyle = "rgb(255, 0, 0)";
var canvas = document.getElementById('mycanvas');
var canvas = document.BeginPath();
```

```
    var context = canvas.getContext('2d');
```

```
context.fillRect(50, 50, 100, 100);                                    ▼
context.fillRect(50, 50, 100, 100);
context.fillStyle = "rgb(255, 0, 0)";
var canvas = document.getElementById('mycanvas');
var canvas = document.BeginPath();
```

```
context.fillRect(50, 50, 100, 100);                                    ▼
context.fillRect(50, 50, 100, 100);
context.fillStyle = "rgb(255, 0, 0)";
var canvas = document.getElementById('mycanvas');
var canvas = document.BeginPath();
```

```
    </script>

</body>

</html>
```

QUESTION 19
You are developing an HTML5 page that has an element with an ID of logo. The page includes the following HTML.

<div>

Logo:

<div id="logo">

</div>

</div>

You need to move the logo element lower on the page by five pixels.

Which lines of code should you use? (Each correct answer presents part of the solution. Choose two.)

A. document.getElementById("logo") .style.position = "relative";
B. document.getElementById("logo").Style.top = "5px";
C. document.getElementById("logo").style.top = "-5px";
D. document.getElementById("logo").style.position = "absolute";

Correct Answer: AB
Explanation:
http://www.w3schools.com/cssref/pr_class_position.asp
http://www.w3schools.com/cssref/pr_pos_top.asp

QUESTION 20
You are developing a web page by using HTML5 and C5S3. The page includes a <div> tag with the ID set to validate.

When the page is rendered, the contents of the <div> tag appear on a line separate from the content above and below it. The rendered page resembles the following graphic.

content

```
div
```

more content
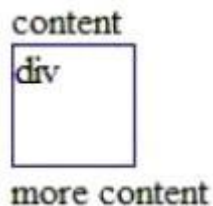
The page must be rendered so that the <div> tag is not forced to be separate from the other content. The following graphic shows the correctly rendered output.

```
div
```

content   more content
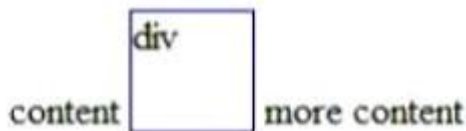
You need to ensure that the page is rendered to meet the requirement.

Which line of code should you use?

A. document.getElementById("validate").style.display = "inline";
B. document.getElementById("validate").style.margin = "0";
C. document.getElementById("validate").style.padding = "0";
D. document.getElementSyId("validate").style.display = "block";

Correct Answer: A
Explanation:
http://www.w3schools.com/cssref/pr_class_display.asp

QUESTION 21
HOTSPOT
You are creating a web worker for an HTML5 application.

The following tasks must be performed from within the web worker:

▪ Register an event listener for the web worker
▪ Start and stop the web worker

You need to define a function that performs the required tasks.

Which code segment should you use? (To answer, select the appropriate option from the drop-down list in the answer area.)

```
self.postMessage('Worker: ' + data);                          ▼
    var data = event.data;
    switch (data.cmd) {
        case 'start':
            self.postMessage('Worker: ' + data);              ▼
            break;
        case 'stop':
            self.postMessage('Worker: ' + data);              ▼
            break;
        default:
            self.postMessage('Try again: ' + data.msg);
            default:
                self.postMessage('Try again: ' + data.msg);
        };
    }, false);
```

```
self.postMessage('Worker: '+ data);                                    ▼
self.postMessage('Worker: '+ data);
self.addEventListener('message', function(event));
self.attachEvent('Worker', data);
self.terminate();
self.close();
```

```
  var data = event.data;
  switch (data.cmd) {
    case 'start':
```

```
      self.postMessage('Worker: '+ data);                              ▼
      self.postMessage('Worker: '+ data);
      self.addEventListener('message', function(event));
      self.attachEvent('Worker', data);
      self.terminate();
      self.close();
```

```
      break;
    case 'stop':
```

```
      self.postMessage('Worker: '+ data);                              ▼
      self.postMessage('Worker: '+ data);
      self.addEventListener('message', function(event));
      self.attachEvent('Worker', data);
      self.terminate();
      self.close();
```

```
      break;
    default:
      self.postMessage('Try again: ' + data.msg);
      default:
          self.postMessage('Try again: ' + data.msg);
    };
  }, false);
```

Correct Answer:

```
self.postMessage('Worker: ' + data);
```

| self.postMessage('Worker: ' + data); |
| self.addEventListener('message', function(event)); |
| self.attachEvent('Worker', data); |
| self.terminate(); |
| self.close(); |

```
  var data = event.data;
  switch (data.cmd) {
    case 'start':
```

```
self.postMessage('Worker: ' + data);
```

| self.postMessage('Worker: ' + data); |
| self.postMessage('Worker: ' + data); |
| self.addEventListener('message', function(event)); |
| self.attachEvent('Worker', data); |
| self.terminate(); |
| self.close(); |

```
      break;
    case 'stop':
```

```
self.postMessage('Worker: ' + data);
```

| self.postMessage('Worker: ' + data); |
| self.addEventListener('message', function(event)); |
| self.attachEvent('Worker', data); |
| self.terminate(); |
| self.close(); |

```
      break;
    default:
      self.postMessage('Try again: ' + data.msg);
      default:
        self.postMessage('Try again: ' + data.msg);
    };
}, false);
```

QUESTION 22
You are creating a JavaScript function that displays the name of a web application.

You declare the following button element.

<input type="button" id= "About" value="About" />

When a user clicks the button, a JavaScript function named About must be called.

You need to create an event handler that calls the About function when the button is clicked.

Which two code segments can you use? (Each correct answer presents a complete solution. Choose two.)

```
☐ A.   var button = document.getElementById("About");
       ScriptEngine.call(button, About());
```

```
☐ B.   var button = document.getElementById("About");
       ScriptEngine.bind(button, About());
```

```
☐ C.   var button = document.getElementById("About");
       button.addEventListener("click", About);
```

```
☐ D.   var button = document.getElementById("About");
       button.attachEvent("onclick", About);
```

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

Correct Answer: CD
Explanation:
http://help.dottoro.com/ljeuqqoq.php
http://help.dottoro.com/ljinxrmt.php

QUESTION 23
HOTSPOT
You are creating a function by using JavaScript. The function accepts an object as the parameter and returns a string that identifies the data type of the object.

You have the following requirements:

▪ The function must return "Number" if the object is a number.
▪ The function must return "String" if the object is a string.
▪ The function must return "Unknown" if the object is neither a number nor a string.

You need to implement the function to meet the requirements.

How should you build the code segment? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
function GetObjectType(obj) {
    [default ▼] (obj.constructor) {
    [default ▼] Number:
            return "Number";
    [default ▼] ;
    [default ▼] String:
            return "String";
    [default ▼] ;
    [default ▼] :
            return "Unknown";
    }
}
```

```
function GetObjectType(obj) {
```

default ▾	`(obj.constructor) {`

```
default
switch
break
case
```

default ▾	`Number:`

```
default
switch
break
case
```

```
        return "Number";
```

default ▾	`;`

```
default
switch
break
case
```

default ▾	`String:`

```
default
switch
break
case
```

```
        return "String";
```

default ▾	`;`

```
default
switch
break
case
```

default ▾	`:`

```
default
switch
break
case
```

```
        return "Unknown";

    }

}
```

Correct Answer:

```
function GetObjectType(obj) {
```

| default ▼ | `(obj.constructor) {`
| --- |
| **default** |
| [switch] |
| break |
| case |

| default ▼ | `Number:`
| --- |
| **default** |
| switch |
| break |
| [case] |

```
        return "Number";
```

| default ▼ | `;`
| --- |
| **default** |
| switch |
| [break] |
| case |

| default ▼ | `String:`
| --- |
| **default** |
| switch |
| break |
| [case] |

```
        return "String";
```

| default ▼ | `;`
| --- |
| **default** |
| switch |
| [break] |
| case |

| default ▼ | `:`
| --- |
| [**default**] |
| switch |
| break |
| case |

```
        return "Unknown";
    }
}
```

QUESTION 24
You need to test the value of the following variable in JavaScript.

var length = "75";

A block of code must execute if the length equals 75 regardless of the data type.

You need to use the statement that meets this requirement.

Which lines of code should you use? (Each correct answer presents a complete solution. Choose two.)

A. if (length = = = 75)
B. if (length = = 75)
C. if (length! = 75)
D. if (length = = "75")

Correct Answer: BD

QUESTION 25
You are developing an application that uses a third-party JavaScript library named doWork().

The library occasionally throws an "object is null or undefined" error with an error code of -2146823281.

The application must:

▪ Extract and handle the exceptions thrown by doWork()
▪ Continue normal program execution if other exceptions occur

You need to implement the requirements.

Which code segment should you use?

```
C A.   if (doWork() == -2146823281) {
          ...
       }


C B.   if (doWork() == "object is null or undefined") {
          ...
       }


C C.   try {
          doWork();
       } catch(e) {
         if (e.number == -2146823281)
            ...
       }


C D.   try {
          doWork();
       } catch(e) {
         if (e.message == -2146823281)
            ...
       }
```

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

Correct Answer: C

QUESTION 26
You are troubleshooting a web page that includes the following code. (Line numbers are included for reference only.)

```
01 <!DOCTYPE html>
02 <html lang="en" xmlns="http://www.w3.org/1999/xhtml">
03 <head>
04    <meta charset="utf-8" />
05    <title></title>
06    <script>
07      document.addEventListener("DOMContentLoaded", function () {
08      var elButton = document.getElementById("myButton");
09      var elDiv = document.getElementById("myDiv");
10      elButton.addEventListener("click", function () {
11        alert(this.type);
12      }, false);
13    }, false);
14    </script>
15 </head>
16 <body>
17    <div id="myDiv">Test</div>
18    <input type="button" id="myButton" value="Click Me" />
19 </body>
20 </html>
```

What is displayed in the alert from line 11?

A. Div
B. Function
C. Button
D. Document

Correct Answer: C

QUESTION 27
You are developing a web application that consumes services from a third-party application. A
web worker processes the third-party application requests in the background. A page in the
application instantiates the web worker process.

You need to establish two-way communications between the web worker process and the page.

Which two actions will achieve this goal? (Each correct answer presents a complete solution.
Choose two.)

A. From the web worker, use the onconnect event handler of the main page to capture events.
B. From the main page, use the onmessage event handler of the web worker to capture events.
C. From the web worker, use the onmessage event handler of the main page to capture events.
D. From the main page, use the onconnect event handler of the web worker to capture events.

Correct Answer: BC
Explanation:
http://www.w3schools.com/html/html5_serversentevents.asp
http://www.html5rocks.com/en/tutorials/workers/basics/

QUESTION 28
You are developing an HTML5 web application that displays customer mailing address
information.

The application loads addresses from a web service by using AJAX. The following code defines a
Customer object and loads address data.

```
function Customer(firstName, lastName) {
  this.firstName = firstName;
  this.lastName = lastName;
  this.address = "";
}

Customer.prototype.parseAddress = function (data) {
  this.address = data.address;
}

Customer.prototype.loadAddress = function () {


}
```

You need to implement the loadAddress function.

Which code segment should you use?

```
A.  $.get('data.xml', function (data) {
        (function (scope) {
           scope.parseAddress(data);
        }) (data);
    });


B.  $.get('data.xml', function (data, innerScope) {
        innerScope.parseAddress(data);
    });


C.  var that = this;
    $.get('data.xml', function (data) {
      that.parseAddress(data);
    });


D.  $.get('data.xml', function (data) {
        this.parseAddress(data);
    });
```

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

Correct Answer: C

QUESTION 29
You are developing an HTML5 web page.

The appearance of the text box must change when a user moves the focus to another element on the page.

You need to develop the page to respond to user action.

Which line of code should you use?

A. <input type="text" onblur="resetStyle(this);" />
B. <input type="text" onfocus="resetStyle(this);" />
C. <input type="text" onreset="resetStyle(this);" />
D. <input type="text" onselect="resetStyle(this);" />

Correct Answer: A
Explanation:
http://www.w3schools.com/jsref/event_onblur.asp

QUESTION 30
DRAG DROP
You are developing an online shopping application that accepts credit cards for payment.

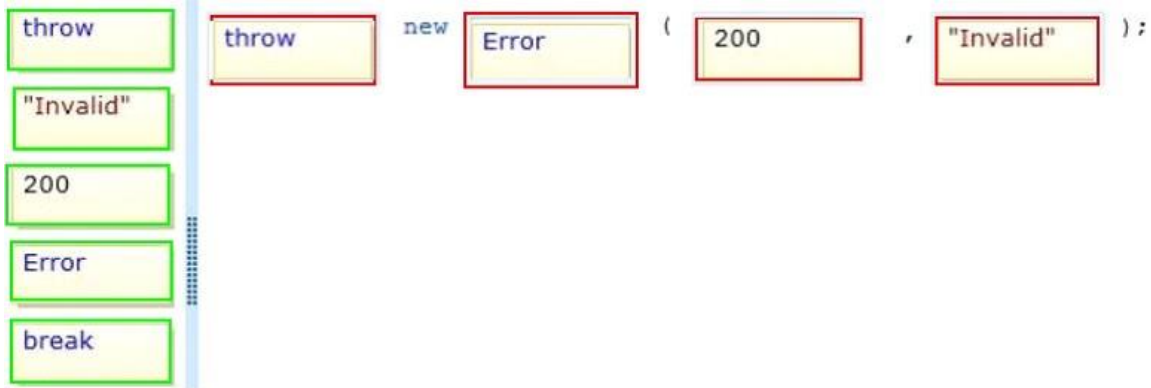If the credit card number is invalid, the application must:

▪ Generate an error
▪ Assign "200" to the error number
▪ Assign "Invalid" to the error description

You need to write the code that meets the requirements.

How should you write the code? (To answer, drag the appropriate code segment or segments to the correct location in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| throw | | new | | (| | , | |) ; |

"Invalid"

200

Error

break

Correct Answer:

| throw | | throw | new | Error | (| 200 | , | "Invalid" |) ; |

"Invalid"

200

Error

break

QUESTION 31
You are developing an HTML5 page that includes several paragraph elements.

You have the following requirements:

▪ Add a drop shadow that is one inch below the text in the paragraph
▪ Set the radius of the drop shadow to five pixels

You need to style the paragraphs to meet the requirements.

Which CSS style should you use?

A.   text-shadow: 72pt 0pt 5pt
B.   text-shadow: 5px lin 0px;
C.   text-shadow: 72pt 5em 0px
D.   text-shadow: 72pt 0em 5px;

Correct Answer: B
Explanation:
See http://www.w3.org/TR/css3-text/#text-shadow

All options are incorrect nearest correct answers are B or D???

#obj {text-shadow: <x-offset> <y-offset> <blur-radius> <color>; }

<x-offset> +n right -n left

<y-offset> +n bottom -n top

1 inch below means <y-ffset> is 1in or 72 pt

Hence actually answer must be 0px, 1in, 5px 0r 0px, 72pt, 5px

QUESTION 32
You are creating a web form that users will use to enter their personal information. The form includes the following HTML.

```
<body>
   <table>
     <tr>
        <td>Item</td>
        <td>Input</td>
        <td>Current</td>
     </tr>
     <tr>
        <td>First Name</td>
        <td>
           <input type="text" />
        </td>
        <td></td>
     </tr>
     <tr>
        <td>Last Name</td>
        <td>
           <input type="text" />
        </td>
        <td></td>
     </tr>
   </table>
</body>
```

You have the following requirements:

▪ When a user enters an input box, the cell on the right must turn green.
▪ When a user leaves an input box, the cell on the right must turn white.

You need to create the web form to meet these requirements.

Which code segment should you use?

```
C A.  $(document).ready(function () {
         $('table td: nth-child(2) input').focus(
           function () {
             $(this).parent().next().css
             ("background-color", "#00FF00");
           });
         $('table td: nth-child(2) input').blur(
           function () {
             $(this).parent().next().css
             ("background-color", "#FFFFFF");
           });
       });

C B.  $(document).ready(function () {
         $('table td: eq(2) input').focus(
           function () {
             $(this).parent().parent().next().css
             ("background-color", "#00FF00");
           });
         $('table td: eq(2) input').blur(
           function () {
             $(this).parent().parent().next().css
             ("background-color", "#FFFFFF");
           });
       });

C C.  $(document).ready(function () {
         $('table td:eq(2) input').focus(
           function () {
             $(this).parent().next().css
             ("background-color", "#00FF00");
           });
         $('table td:eq(2) input').blur(
           function () {
             $(this).parent().next().css
             ("background-color", "#FFFFFF");
           });
       });

C D.  $(document).ready(function () {
         $('table td:nth-child(2) input').focus(
           function () {
             $(this).parent().parent().next().css
             ("background-color", "#00FF00");
           });
         $('table td:nth-child(2) input').blur(
           function () {
             $(this).parent().parent().next().css
             ("background-color", "#FFFFFF");
           });
       });
```

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

Correct Answer: A

QUESTION 33
You are developing a web page. You create a grid layout by using the following CSS segment.

```
#myGrid {
    display: -ms-grid;
    background: gray;
    -ms-grid-columns: 100px 100px;
    -ms-grid-rows: 50px 50px 50px;
}
```

You have the following requirements:

▪ You must place content in the first column of the second row.
▪ The content must span two columns.

You need to ensure that the style of the grid meets the requirements.

Which CSS segment should you use?

A.
```
#itemSpan {
    -ms-grid-row: 2;
    -ms-grid-column: 1;
    -ms-grid-column-span: 2
}
```

B.
```
#itemSpan {
    -ms-grid-row: 2;
    -ms-grid-column: 1;
    -ms-grid-column-span: initial
}
```

C.
```
#itemSpan {
    -ms-grid-row: 2;
    -ms-grid-column: 1;
    -ms-grid-column-width: 2;
}
```

D.
```
#itemSpan {
    -ms-grid-row: 2;
    -ms-grid-column: 1;
    -ms-grid-column-span: inherit
}
```

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

Correct Answer: A

QUESTION 34
DRAG DROP
You are creating an application by using HTML5 and CSS3. The styles for the pages are derived from five style sheets.

The styles are not being applied correctly to the pages in the application.

You need to apply the styles from highest priority to lowest priority.

In which order should you use the five style sheets? (To answer, move the style sheet types from the list of style sheet types to the answer area and arrange them in the correct order.)

Correct Answer:

QUESTION 35
You are developing a web page by using HTML5.

You have the following requirements:

▪ An H1 element must be placed at the top left corner of the page.
▪ The size and location of the H1 element must not change if additional elements are added to the page.

You need to position the H1 element on the page.

Which CS53 style should you use?

C A.
```
h1
{
position:absolute;
left:0px;
top:0px;
}
```

C C.
```
h1
{
position:static;
left:100%;
top:100%;
}
```

C B.
```
h1
{
position:absolute;
left:100%;
top:100%;
}
```

C D.
```
h1
{
position:static;
left:0px;
top:0px;
}
```

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

Correct Answer: A

QUESTION 36
You are styling a box object on a page by using CSS3.

You need to set the transparency of the object to 50%.

Which two CSS3 styles will achieve the goal? (Each correct answer presents a complete solution. Choose two.)

☐ A. `.Box {`
        `background: rgb(255,0,0);`
        `backface-visibility: hidden;`
      `}`

☐ B. `.Box {`
        `background: rgb(255,0,0);`
        `background: rgba(255,0,0,.5);`
      `}`

☐ C. `.Box {`
        `background: rgb(255,0,0);`
        `opacity: 0.5;`
      `}`

☐ D. `.Box {`
        `background: rgb(255,0,0);`
        `background-color: #fff;`
      `}`

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

Correct Answer: BC
Explanation:
http://www.css3.info/introduction-opacity-rgba/

QUESTION 37
HOTSPOT
You are developing a web page that will be accessed from various types of devices.

You have the following requirements:

▪ The appropriate display resolution must be selected dynamically based on the device connecting to the page.
▪ Mobile devices with a maximum width of 480 pixels must be able to use the page.

You need to ensure that the page displays correctly on any device.

How should you build the code? (To answer, select the appropriate options from the drop- down lists in the answer area.)

```
@media |screen and (min-width:200px) and (max-width:480px)      ▼|
{
   #navbar {
      float: none;
      width: 200px;
   }
}
@media |screen and (min-width:200px) and (max-width:480px)      ▼|
{
   #navbar {
      float: left;
      width: 500px;
   }
}
```

```
@media  screen and (min-width:200px) and (max-width:480px)        ▼
{
        screen and (min-width:200px) and (max-width:480px)
        size and (min-width:200px) and (max-width:480px)
        screen and (min-width:480px)
        size and (min-width:480px)
```

```
  #navbar {
     float: none;
     width: 200px;
  }
}
```

```
}
@media  screen and (min-width:200px) and (max-width:480px)        ▼
        screen and (min-width:200px) and (max-width:480px)
        size and (min-width:200px) and (max-width:480px)
        screen and (min-width:480px)
        size and (min-width:480px)
```

```
  {

  #navbar {
     float: left;
     width: 500px;
  }
}
```

Correct Answer:

```
@media  screen and (min-width:200px) and (max-width:480px)    ▼
{
        screen and (min-width:200px) and (max-width:480px)
        size and (min-width:200px) and (max-width:480px)
        screen and (min-width:480px)
        size and (min-width:480px)

    #navbar {
        float: none;
        width: 200px;
    }
}
@media  screen and (min-width:200px) and (max-width:480px)    ▼
        screen and (min-width:200px) and (max-width:480px)
        size and (min-width:200px) and (max-width:480px)
        screen and (min-width:480px)
        size and (min-width:480px)

{

    #navbar {
        float: left;
        width: 500px;
    }
}
```

QUESTION 38
You are developing an HTML5 web application and are styling text.

You need to use the text-transform CSS property.

Which values are valid for the text-transform property?

A. hidden
B. blink
C. capitalize
D. line-through

Correct Answer: C
Explanation:
http://www.w3schools.com/cssref/pr_text_text-transform.asp

none,capitalize,uppercase,lowercase and inherit

Example

Transform text in different elements:

h1 {text-transform:uppercase;}

h2 {text-transform:capitalize;}

p {text-transform:lowercase;}

QUESTION 39
DRAG DROP
You are developing a website that has many web pages with hyperlinks to other sites.

You need to ensure that if a hyperlink contains an image, the linked web page opens in a new window.

Which jQuery code segment or segments should you use? (To answer, drag the appropriate line of code to the correct location. Each line of code may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
$("a img").each(function () {
```

```
$(this).parent().attr('target', '_blank')
```

```
$("a").each(function () {
```

```
$(this).attr('target', '_blank')
```

Answer Area

```
<!DOCTYPE html>
<html>
<head>
  <title></title>
  <script src="http://code.jquery.com/jquery-latest.js">
  </script>
</head>
<body>
  <a href="http://www.microsoft.com">
    <img src="img.png" />
  </a>
</body>
<script>
  $(document).ready(function () {

  });
  });
</script>
</html>
```

Correct Answer:

```
$("a img").each(function () {
```

```
$(this).parent().attr('target', '_blank')
```

```
$("a").each(function () {
```

```
$(this).attr('target', '_blank')
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Answer Area

```
<!DOCTYPE html>
<html>
<head>
  <title></title>
  <script src="http://code.jquery.com/jquery-latest.js">
  </script>
</head>
<body>
  <a href="http://www.microsoft.com">
    <img src="img.png" />
  </a>
</body>
<script>
  $(document).ready(function () {
      $("a img").each(function () {
          $(this).parent().attr('target', '_blank')
      });
  });
</script>
</html>
```

QUESTION 40
You are developing a page that includes text and an illustration. The web page resembles the following image.

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You have the following requirements:

▪ The illustration must be in the center of the page.
▪ The text must flow around the left, right, top, and bottom of the illustration.

You need to ensure that the layout of the web page meets the requirements.

Which line of code should you use?

A.   -ms-wrap-side: both;
B.   -ms-wrap-side: clear;
C.   -ms-wrap-side: maximum;
D.   -ms-wrap-side: auto;

Correct Answer: A
Explanation:
http://msdn.microsoft.com/en-us/library/ie/hh673558(v=vs.85).aspx
http://dev.w3.org/csswg/css3-exclusions/

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70-321	**70-412**	**70-483**	**70-583**
70-331	**70-413**	**70-484**	**70-640**
70-332	**70-414**	**70-485**	**70-649**
70-336	**70-417**	**70-486**	**70-668**
70-337	**70-461**	**70-487**	**70-680**
70-341	**70-462**	**70-488**	**70-687**
70-342	**70-463**	**70-489**	**70-688**
70-346	**70-464**	**70-513**	**70-689**