

## 70-480.exam.167q

Number: 70-480

Passing Score: 800

Time Limit: 120 min



**VCE to PDF Converter :** <https://vceplus.com/vce-to-pdf/>

**Facebook:** <https://www.facebook.com/VCE.For.All.VN/>

**Twitter :** [https://twitter.com/VCE\\_Plus](https://twitter.com/VCE_Plus)

**Google+ :** <https://plus.google.com/+Vcepluscom>

**LinkedIn :** <https://www.linkedin.com/company/vceplus>

<http://vceplus.com/>

70-480

**Programming in HTML5 with JavaScript and CSS3**

### Sections

1. Volume A
2. Volume B
3. Volume C
4. Volume D

### Exam A

**QUESTION 1**

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 ()  
{ alert('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.)



<http://vceplus.com/>

- A. Consultant.PayEmployee = function ()  
{  
 alert('Pay Consultant');  
}
- 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

**Section:** Volume A

**Explanation**

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

**Explanation/Reference:**

Explanation:

\* Object.prototype.constructor

Returns a reference to the Object function that created the instance's prototype. Note that the value of this property is a reference to the function itself, not a string containing the function's name. The value is only read-only for primitive values such as 1, true and "test".

\* The constructor property is created together with the function as a single property of func.prototype. Reference:

Object.prototype.constructor

**QUESTION 2**

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

**Correct Answer: C**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

Explanation:

HTML <nav> Tag

Example

A set of navigation links:

```
<nav>
  <a href="/html/">HTML</a> |
```

```
<a href="/css/">CSS</a> |  
<a href="/js/">JavaScript</a> |  
<a href="/jquery/">jQuery</a>  
</nav>
```

Reference: HTML <nav> Tag

[http://www.w3schools.com/tags/tag\\_nav.asp](http://www.w3schools.com/tags/tag_nav.asp)

### QUESTION 3

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

**Section:** Volume A

#### Explanation

##### Explanation/Reference:

Explanation:

\* Object.prototype.constructor

Returns a reference to the Object function that created the instance's prototype. Note that the value of this property is a reference to the function itself, not a string containing the function's name. The value is only read-only for primitive values such as 1, true and "test". \* The constructor property is created together with the function as a single property of func.prototype.

Reference: Object.prototype.constructor

#### QUESTION 4

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?

- C A. 

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

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

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

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

We create a new div element with the textbox.

We then use appendChild() method appends this node as the last child the input node divname.

Reference: HTML DOM appendChild() Method

#### **QUESTION 5**

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

```
<div>
Logo:<br>
<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

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

\* style.position = "relative";

The element is positioned relative to its normal position, so "left:20" adds 20 pixels to the element's LEFT position.

\* For relatively positioned elements, the top property sets the top edge of an element to a unit above/below its normal position.

Example:

Set the top edge of the image to 5px below the top edge of its normal position:

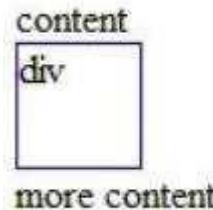
```
img {  
    position: relative;  
    top: 5px; }
```

Reference: CSS position Property; CSS top Property  
[http://www.w3schools.com/cssref/pr\\_class\\_position.asp](http://www.w3schools.com/cssref/pr_class_position.asp)  
[http://www.w3schools.com/cssref/pr\\_pos\\_top.asp](http://www.w3schools.com/cssref/pr_pos_top.asp)

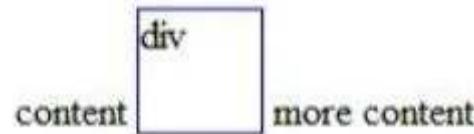
#### QUESTION 6

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.



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.



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.getElementById("validate").style.display = "block";

**Correct Answer:** A

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation: \*

display: value;  
value: inline

Default value. Displays an element as an inline element (like <span>)

\* Example

Display <p> elements as inline elements:

```
p.inline {  
display: inline; }
```

Reference: CSS display Property

[http://www.w3schools.com/cssref/pr\\_class\\_display.asp](http://www.w3schools.com/cssref/pr_class_display.asp)

## QUESTION 7

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

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

C: addEventListener

The addEventListener() method attaches an event handler to the specified element.

In context of a worker, both self and this refer to the global scope. The worker can either add an event listener for the message event, or it can define the onmessage handler to listen for any messages sent by the parent thread.

D: attachEvent method

Registers an event handler function (event listener) for the specified event on the current object.

Reference: addEventListener method; attachEvent method

<http://help.dottoro.com/jeuqqoq.php>

<http://help.dottoro.com/ljnxrmt.php>

**QUESTION 8**  
You need to test the value of the following variable in JavaScript.

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

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

When comparison is made using double-equals operator (==), it will check the values of variable and convert them to a common type and returns true if both are equals. So comparing number with string having the same value will return true.

Examples:

examples:

```
1
console.log(23 == "23"); // true
2
console.log(1 == true); // true
```

Incorrect Answers: not ===: This is “strict” or “identical” equality.

Reference: JavaScript Triple Equals Operator vs Double Equals Operator ( === vs == )

## QUESTION 9

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

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

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

\* The try statement lets you test a block of code for errors. The catch statement lets you handle the error.

```
try {  
    Block of code to try  
} catch(err)  
{  
    Block of code to handle errors  
}
```

\* object.number [= errorNumber]

Returns or sets the numeric value associated with a specific error. The Error object's default property is number.

\* Example:

The following example causes an exception to be thrown and displays the error code that is derived from the error number.

```
try  
{  
    // Cause an error.  
    var x = y;  
}  
catch(e)  
{  
    document.write ("Error Code: ");  
document.write (e.number & 0xFFFF)  
document.write ("<br />");  document.write  
("Facility Code: ")  
document.write(e.number>>16 & 0x1FFF)  
    document.write ("<br />");  
document.write ("Error Message: ")  
    document.write (e.message)  
}
```



The output of this code is as follows.

Error Code: 5009

Facility Code: 10

Error Message: 'y' is undefined

Reference: JavaScript Errors - Throw and Try to Catch; number Property (Error) (JavaScript)

#### QUESTION 10

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?



<http://vceplus.com/>

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

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

- \* The event handler here normalizes event object (passed as a first argument) and invokes handleCellClick in a proper context (i.e. referring to an element that was attached event listener to). The element is the button elButton.

\* addEventListener

Syntax: element.addEventListener(event, function, useCapture)

Reference: HTML DOM addEventListener() Method

### QUESTION 11

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 onopen 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 onopen event handler of the web worker to capture events.

**Correct Answer:** BC

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

- \* When postMessage() is called from the main page, our worker handles that message by defining an onmessage handler for the message event.

\* Server-Sent Events - One Way Messaging

A server-sent event is when a web page automatically gets updates from a server.

Receive Server-Sent Event Notifications

The EventSource object is used to receive server-sent event notifications:

Example

```
var source = new EventSource("demo_sse.php");
source.onmessage = function(event) {
    document.getElementById("result").innerHTML += event.data + "<br>";
};
```

Reference:

[http://www.w3schools.com/html/html5\\_serversentevents.asp](http://www.w3schools.com/html/html5_serversentevents.asp)  
<http://www.html5rocks.com/en/tutorials/workers/basics/>

### QUESTION 12

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. 

```
$('data.xml', function (data) {
  (function (scope) {
    scope.parseAddress(data);
  })(data);
});
```
- B. 

```
$('data.xml', function (data, innerScope) {
  innerScope.parseAddress(data);
});
```
- C. 

```
var that = this;
$('data.xml', function (data) {
  that.parseAddress(data);
});
```
- D. 

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

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

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 13**

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

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

Definition and Usage

The onblur event occurs when an object loses focus.

Example

Execute a JavaScript when a user leaves an input field:

<input type="text" onblur="myFunction()"/>

Reference: onblur Event

[http://www.w3schools.com/jsref/event\\_onblur.asp](http://www.w3schools.com/jsref/event_onblur.asp)



#### QUESTION 14

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.) **Select and Place:**

## Code segments

throw  
"Invalid"  
200  
Error  
break

## Answer Area

new  ( ,  );

## Correct Answer:

## Code segments

throw  
new  Error  ( ,  );  
  
  
  
 break

## Answer Area

throw new  Error ( ,  );

Section: Volume A  
Explanation

## Explanation/Reference:

Explanation:

Example: throw new Error(200, "x equals zero");

Reference: throw Statement (JavaScript)

**QUESTION 15**

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

You have the following requirements:

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

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 1in 0px;
- C. text-shadow: 72pt 5em 0px
- D. text-shadow: 72pt 0em 5px;

**Correct Answer:** D

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

D is the most correct.

Reference: CSS Text Module Level 3 <http://www.w3.org/TR/css3-text/#text-shadow>



Note:

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-offset> is 1in or 72 pt

Hence actually answer must be

0px, 1in, 5px

or 0px, 72pt,

5px

**QUESTION**

**16**

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?

nth-child

- 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");  
 };  
 );  
});`

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

**Correct Answer:** A

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

\* The :nth-child(n) selector matches every element that is the nth child, regardless of type, of its parent. n can be a number, a keyword, or a formula.

Example Specify a background color for every <p> element that is the second child of its parent:

```
p:nth-child(2) {  
    background: #ff0000;  
}
```

\* parent.next()

Here: the cell to the right of the current cell.

Reference: CSS3 :nth-child() Selector

### QUESTION 17

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?

- C A. 

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

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

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

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation: [www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

-ms-grid-column-span

Gets or sets a value that specifies the number of columns of the grid that the object spans.

This property is read-only.

Property values

The number of columns.

Integer value that specifies the number of columns to span.

Reference: -ms-grid-column-span property

#### QUESTION 18

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 CSS3 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

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

- \* The position property specifies the type of positioning method used for an element (static, relative, absolute or fixed). absolute: The element is positioned relative to its first positioned (not static) ancestor element
- \* For absolutely positioned elements, the left property sets the left edge of an element to a unit to the left/right of the left edge of its containing element.

CSS Syntax

left: auto|length|initial|inherit; length: Sets the left edge position in px, cm, etc.

Incorrect Answers:

position static: Default value. Elements render in order, as they appear in the document flow

Reference: CSS position Property; CSS left Property

#### **QUESTION 19**

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: #ffff;  
}

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

**Correct Answer:** BC

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

The RGBA declaration allows you to set opacity (via the Alpha channel) as part of the color value.

Example:

```
div { background-color: rgba(255,0,0,0.5); }
```

The background color has been set to blue, with the opacity set to half. A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

Example 2:

```
background-color: rgb(0,0,255); opacity: 0.5;
```

The background color has been set to blue, and the opacity set to half.

Reference: A brief introduction to Opacity and RGBA <http://www.css3.info/introduction-opacity-rgba/>

## QUESTION 20

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**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

Explanation:

CSS Syntax

```
text-transform: none|capitalize|uppercase|lowercase|initial|inherit;
```

Example

Transform text in different elements:

```
h1 {text-transform:uppercase;}  
h2 {text-transform:capitalize;}  
p {text-transform:lowercase;}
```

Reference: CSS text-transform Property

[http://www.w3schools.com/cssref/pr\\_text\\_text-transform.asp](http://www.w3schools.com/cssref/pr_text_text-transform.asp)



## QUESTION 21

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

ris nisi ut aliquip ex ea commmodo consequat. Duis aute i  
velit esse cillum dolore eu fugiat nulla pariatur. Exceptet  
sunt in culpa  
arum und  
distinct. Nam  
se civiuda. Et  
libidig met,  
na aliquam  
s nostrud  
'oluptate velit  
/inde ad eos et accusam dignissum qui blandit est praes  
t occae. Et harund dereud facilis est er expedit distinct.  
est congue nihil impedit doming id Lorem ipsum dolor



qui officia d  
lookum like  
liber te conse  
tam neque p  
consectetur s  
makes one w  
exercitation  
esse cillum e  
/inde ad eos et accusam dignissum qui blandit est praes  
t occae. Et harund dereud facilis est er expedit distinct.  
est congue nihil impedit doming id Lorem ipsum dolor

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

**Correct Answer: A**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

Explanation:

. -ms-wrap-flow

Gets or sets a value that specifies how exclusions impact inline content within block-level elements.

Syntax

-ms-wrap-flow: auto | both | start | end | maximum | clear

both

Inline flow content can flow on all sides of the exclusion.

Reference: -ms-wrap-flow property

[http://msdn.microsoft.com/en-us/library/ie/hh673558\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/ie/hh673558(v=vs.85).aspx)

<http://dev.w3.org/csswg/css3-exclusions/>

### QUESTION 22

You are developing a web page that has a group of H1 and H2 elements. The page also includes a CSS class named underlineMe.

You have the following requirements:

- The font color of all H1 and H2 elements must be changed to red.
- The CSS class underlineMe must be applied to all H1 and H2 elements.

You need to update the web page to meet the requirements.

Which code segment should you use?

- A. `$(":head").addClass('underlineMe');  
 $(":head").css({ color: 'red' });`
- B.  `$("h1").css({ color: 'red' });  
 $("h1").addClass('underlineMe');`
- C.  `$("h2").css({ color: 'red' });  
 $("h2").addClass('underlineMe');`
- D.  `$(":header").css({ color: 'red' });  
 $(":header").addClass('underlineMe');`

A. Option A

B. Option B

C. Option C

D. Option D

**Correct Answer:** D

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

Explanation:

The :header selector selects all header elements (<h1> to <h6>).

Reference: jQuery :header Selector

[http://www.w3schools.com/jquery/sel\\_header.asp](http://www.w3schools.com/jquery/sel_header.asp)

### QUESTION 23

You are developing a web page that will be divided into three vertical sections. The main content of the site will be placed in the center section. The two outer sections will contain advertisements.

You have the following requirements:

- The main content section must be set to two times the width of the advertising sections. ▪
- The layout must be specified by using the CSS3 flexible box model.

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

Which CSS3 property should you use?



<http://vceplus.com/>

- A. box-orient
- B. box-flex-group
- C. box-flex
- D. box-direction

**Correct Answer: C**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

Explanation:

box-flex

Values: 0 | Any integer

The flexibility ratio for this child. If a child had 1 and its sibling had 2, any additional space in the parent box would be consumed twice as much by the sibling. It defaults to 0 which is inflexible.

Reference: Quick hits with the Flexible Box Model  
<http://www.html5rocks.com/en/tutorials/flexbox/quick/>

#### QUESTION 24

You are developing an HTML5 page. The page includes the following code.

```
<p id="outer" style="position: relative">  
  <p id ="inner"></p>  
</p>
```

The inner paragraph must be exactly 15 pixels from the top left corner of the outer paragraph. You set the left style for the inner paragraph to the appropriate value.

You need to set the position property of the inner paragraph.

Which value should you use?

- A. absolute
- B. static
- C. fixed
- D. relative



**Correct Answer:** A

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation: absolute: The element is positioned relative to its first positioned (not static) ancestor element.

Incorrect Answers:

D:

relative: The element is positioned relative to its normal position, so "left:20" adds 20 pixels to the element's LEFT position.

Reference: CSS position Property

[http://www.w3schools.com/cssref/pr\\_class\\_position.asp](http://www.w3schools.com/cssref/pr_class_position.asp)

#### QUESTION 25

You are developing a customer web form that includes the following HTML input field.

```
<input id="txtValue"/>
```

If a customer enters a value into the input field, then it must be a numeric value.

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

You need to add validation to the input field.

Which HTML should you use?

- A. <input id="txtValue" type="text" pattern="/#" />
- B. <input id="txtValue" type="number" />
- C. <input id="txtValue" type="integer" />
- D. <input id="txtValue" type="text" required="required"/>

**Correct Answer:** B

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation: HTML5

Input Types:

color date  
datetime  
datetime-local  
email month  
number range  
search  
tel  
time  
url  
week



Reference: HTML Input Types

[http://www.w3schools.com/html/html5\\_form\\_input\\_types.asp](http://www.w3schools.com/html/html5_form_input_types.asp)

## QUESTION 26

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

```
<input id="txtValue"/>
```

You need to change the HTML markup so that customers can enter only a valid three-letter country code.

Which HTML should you use?

- A. <input id="txtValue" type="code" />
- B. <input id="txtValue" type="text" pattern="[A-Za-z]{3}" />

- C. <input id="txtValue" type="text" required="required"/>
- D. <input id="txtValue" type="country" />

**Correct Answer:** B

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

HTML <input> pattern Attribute

The pattern attribute specifies a regular expression that the <input> element's value is checked against.

Example

An HTML form with an input field that can contain only three letters (no numbers or special characters):

```
<form action="demo_form.asp">  
Country code: <input type="text" name="country_code" pattern="[A-Za-  
z]{3}" title="Three letter country code">  
<input type="submit">  

```



Reference: HTML <input> pattern Attribute

[http://www.w3schools.com/tags/att\\_input\\_pattern.asp](http://www.w3schools.com/tags/att_input_pattern.asp)

## QUESTION 27

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

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

You need to ensure that a value is entered into txtValue before the form is submitted.

Which code segment should you use?

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

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

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

C D. function validate() {  
 var value = \$("#txtValue").get();  
 var regex = /^[A-Za-z]{3}/;  
 if (!regex.test(value) || value == "")  
 alert("please enter valid value");  
 return;  
}

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

**Correct Answer:** A

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

Explanation:

\* Input Text Object Properties include:`value`: Sets or returns the value of the value attribute of the text field

\* Check if text is a null value or an empty string.

Incorrect Answers:

not `.get()`: there is no input text object property `get`.

Reference: HTML DOM Input Text Object

## QUESTION 28

You are developing a web page that consumes a Windows Communication Foundation (WCF) service. The page includes the following code segment.

```
var xhr = new XMLHttpRequest();
```

The page uses the `xhrHandler()` method to listen for changes to the request status of the WCF service calls. It uses the `xmlToJavaScript()` method to convert the response from the WCF service to a JavaScript object.

The `xhrHandler()` method must be called automatically each time the request status changes.

You need to add the event handler to the request object.

Which line of code should you use?

- A. `xhr.onCallback = xhrHandler;`
- B. `xhr.onreadystatechange = xhrHandler;`
- C. `xhr.readyState = xhrHandler;`
- D. `xhr.status = xhrHandler;`

**Correct Answer:** B

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

Explanation:

/ onreadystatechange: Sets or retrieves the event handler for asynchronous requests.

Specifies a reference to an event handler for an event that fires at every state change

readyState

Returns the state of the object as follows:

\* 0 = uninitialized – open() has not yet been called.

\* 1 = open – send() has not yet been called.

\* 2 = sent – send() has been called, headers and status are available.

\* 3 = receiving – Downloading, responseText holds partial data (although this functionality is not available in IE [3]) \* 4 = loaded – Done.

/ Example (assuming that there is a function handler()):

```
var oReq = getXMLHttpRequest();
if (oReq != null) {
    oReq.open("GET", "http://localhost/test.xml", true);
    oReq.onreadystatechange = handler;
oReq.send();
```

Reference: XMLHttpRequest object; XMLHttpRequest (XHR)

[https://msdn.microsoft.com/en-us/library/ie/ms535874\(v=vs.85\).aspx](https://msdn.microsoft.com/en-us/library/ie/ms535874(v=vs.85).aspx)

<http://mrfwebdesign.blogspot.ca/2008/11/xmlhttprequest-xhr.html>



## QUESTION 29

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

```
<input id="txtValue"/>
```

You need to develop the form so that customers can enter only a valid country code consisting of three English alphabet characters.

Which code segment should you use?

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

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

C C. function validate() {  
 var value = \$("#txtValue").val();  
 var regex = /^[A-Za-z]{3}/;  
 if (!regex.test(value) || value == "")  
 alert("please enter valid value");  
 return;  
}

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

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

**Correct Answer: C**

**Section: Volume B**

### Explanation

#### Explanation/Reference:

Explanation:

\* The val() method returns or sets the value attribute of the selected elements.

\* HTML <input> pattern Attribute

The pattern attribute specifies a regular expression that the <input> element's value is checked against.

### Example

An HTML form with an input field that can contain only three letters (no numbers or special characters):

```
<form action="demo_form.asp">  
Country code: <input type="text" name="country_code" pattern="[A-Za-  
z]{3}" title="Three letter country code">  
<input type="submit">  
</form>
```

Reference: HTML <input> pattern Attribute

[http://www.w3schools.com/tags/att\\_input\\_pattern.asp](http://www.w3schools.com/tags/att_input_pattern.asp)



### QUESTION 30

You are developing an application that consumes an external web service that returns the latest stock rate.

The application has two methods:

- The getResults() method makes an AJAX web service request
- The ShowRate() method displays the stock rate from the web service response You

need to ensure that the ShowRate() method always displays the latest stock rate.

Which code segment should you use?

C A. function getResults(){  
\$.ajax({  
 type: 'POST',  
 cache:true,  
 url: "StockRates.asmx/GetRate",  
 data: { 'StockName': stockName }  
 dataType: 'json',  
 success: function (result) {  
 stockRate = result;  
 });  
 ShowRate();  
}  
  
function ShowRate() {  
 alert(stockRate);  
}

C B. var stockRate;  
function getResults(){  
\$.ajax({  
 async: false,  
 type: 'POST',  
 url: "StockRates.asmx/GetRate",  
 data: { 'StockName': stockName }  
 dataType: 'json',  
 success: function (result) {  
 stockRate = result;  
 });  
 ShowRate();  
}  
  
function ShowRate() {  
 alert(stockRate);  
}

C C. var stockRate;  
function getResults(){  
\$.ajax({  
 async: true,  
 type: 'POST',  
 url: "StockRates.asmx/GetRate",  
 data: { 'StockName': stockName },  
 dataType: 'json',  
 success: function (result) {  
 stockRate = result;  
 });  
 ShowRate();  
}  
  
function ShowRate() {  
 alert(stockRate);  
}

C D. var stockRate;  
function getResults(){  
\$.ajax({  
 async: false,  
 cache:false,  
 type: 'POST',  
 url: "StockRates.asmx/GetRate",  
 data: { 'StockName': stockName },  
 dataType: 'json',  
 success: function (result) {  
 stockRate = result;  
 });  
 ShowRate();  
}  
  
function ShowRate() {  
 alert(stockRate);  
}

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

**Correct Answer:** D

**Section:** Volume B

#### Explanation

##### Explanation/Reference:

Explanation:

" always displays the latest stock rate ". Should use cache: false

Note: cache (default: true, false for dataType 'script' and 'jsonp')

Type: Boolean

If set to false, it will force requested pages not to be cached by the browser.

Reference: jQuery.ajax()

#### QUESTION 31

DRAG DROP

You are developing an application that reads information from a file.

The application must:

- Execute a block of code if there is an error accessing the file
- Execute a second block of code whether or not there is an error accessing the file

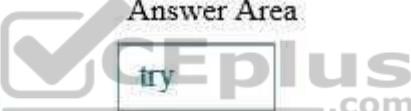
You need to ensure that the error handling requirements are met.

Which three statements should you implement in sequence? (To answer, move the appropriate statements from the list of actions to the answer area and arrange them in the correct order.)

#### Select and Place:

Actions	Answer Area
catch(e)	
debug	
throw	
try	
finally	

**Correct Answer:**

Actions	Answer Area
try	
debug	catch(c)
throw	finally

## Section: Volume B

### Explanation

#### Explanation/Reference:

Explanation:

The fileopen statement is put within the try clause.

The catch(e) will catch a fileopen error.

The finally clause will be executed regardless of whether an error occurs in the try clause proceeding it

#### QUESTION 32

You are creating a JavaScript function to display the current version of a web application  
You declare a button as follows.

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

You need to create an event handler for the button by using an anonymous function.

Which code segment should you use?

- A. 

```
var button = document.getElementById("About");
button.addEventListener('click', function { alert("Version 2.1.0") } );
```
- B. 

```
var button = document.getElementById("About");
button.addEventListener('click', function (alert("Version 2.1.0")) ) );
```
- C. 

```
var button = document.getElementById("About");
button.addEventListener('click', function () { alert("Version 2.1.0") } );
```
- D. 

```
var button = document.getElementById("About");
button.addEventListener('click', alert("Version 2.1.0") ) );
```

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

**Correct Answer:** C

**Section:** Volume B

#### Explanation

#### Explanation/Reference:

Explanation:

Example

When passing parameter values, use an "anonymous function" that calls the specified function with the parameters:

```
document.addEventListener("click", function() {
myFunction(p1, p2);
```

});

Reference: HTML DOM addEventListener() Method

### QUESTION 33

You are testing the value of the following variable in JavaScript.

```
var height = "300";
```

A block of code must execute if the following conditions are true:

- The height variable is set to 300
- The height variable is of type string You need

to implement the code to run the test.

Which line of code should you use?

- A. if (height == 300)
- B. if (height == "300")
- C. if (height != "300")
- D. if (height != 300)

**Correct Answer:** B

**Section:** Volume B

### Explanation

#### Explanation/Reference:

Explanation:

Use == to test for equality.

Use "300" to test for the string.



### QUESTION 34

You are developing a web application that uses web workers to process images extracted from an HTML5 CANVAS object on a web page.

You need to pass messages between the web workers and the web page.

Which three types of objects should you use? (Each correct answer presents a complete solution. Choose three.)

- A. JSON
- B. Window
- C. Parent
- D. String

- E. JavaScript
- F. DOM

**Correct Answer:** ADE

**Section:** Volume B

### Explanation

#### Explanation/Reference:

Explanation:

\* Example:

```
var myHelloWorker = new Worker('helloworlders.js');
```

You'll then start the worker (and thus a thread under Windows) by sending it a first message:

```
myHelloWorker.postMessage();
```

Indeed, the Web Workers and the main page are communicating via messages. Those messages can be formed with normal strings or JSON objects.

\* (E) The Web Workers API makes it possible to execute a JavaScript file asynchronously and autonomously. A web worker is essentially a thread executing a JavaScript file.

\* (A, D) In the first implementations of web workers the browsers only allowed strings to be exchanged as messages. However, recent implementations allow for exchange of values or JSON objects.

Reference: HTML5 Web Workers

### QUESTION 35

You are creating a class named Sedan that must inherit from the Car class. The Sedan class must modify the inherited fourDoor () method. The Car class is defined as follows.

```
function Car() {}  
Car.prototype.fourDoor = function () {  
    alert('four doors');  
}
```

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

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

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

- A. Sedan.fourDoor = function ()  
{  
 alert('door count');  
}
- B. Sedan.prototype.fourDoor = function ()  
{  
 alert('door count');  
}
- C. function Sedan()  
{  
 Car.call(this);  
}  
Sedan.prototype = new Car();  
Sedan.prototype.constructor = Sedan;
- D. function Sedan()  
{  
 Car.call(this);  
}  
Sedan.prototype.constructor = Sedan.create;

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

**Correct Answer:** BC

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

Explanation: [www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

\* The Object.prototype property represents the Object prototype object.

\* Object.prototype.constructor

Specifies the function that creates an object's prototype.

\* Example:

```
Employee.prototype = new Person();
```

```
var Customer = function(name) {
```

```
    this.name = name;
```

```
};
```

```
Customer.prototype = new Person();
```

```
var Mime = function(name) {
```

```
    this.name = name;
```

```
    this.canTalk = false;
```

```
};
```

```
Mime.prototype = new Person();
```

Reference: Object.prototype



### QUESTION 36

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. <nav>
- B. <article>
- C. <span>
- D. <div>

**Correct Answer: B**

**Section: Volume B**

### Explanation

#### Explanation/Reference:

Explanation:

The <article> tag specifies independent, self-contained content.

An article should make sense on its own and it should be possible to distribute it independently from the rest of the site.

Potential sources for the <article> element:

Forum post

Blog post

News story

Comment

Reference: HTML <article> Tag

[http://www.w3schools.com/tags/tag\\_article.asp](http://www.w3schools.com/tags/tag_article.asp)

[http://www.w3schools.com/html/html5\\_new\\_elements.asp](http://www.w3schools.com/html/html5_new_elements.asp)

### QUESTION 37

You are developing application web form by using HTML5 and JavaScript.

You need to prevent users from submitting form data more than once.

Which code segment should you use?



- C A. 

```
<body>
    <input id="btnSubmit" type="button" value="Submit" onclick="disable(this)" />
    <input id="btnCancel" type="button" value="Submit" onclick="disable(this)" />
    <script>
        function disable(ctrl) {
            ctrl.disabled = true;
        }
    </script>
</body>
```
- C B. 

```
<body>
    <input id="btnSubmit" type="button" value="Submit" onclick="disable()" />
    <input id="btnCancel" type="button" value="Submit" onclick="disable()" />
    <script>
        function disable() {
            this.disabled = true;
        }
    </script>
</body>
```
- C C. 

```
<body>
    <input id="btnSubmit" type="button" value="Submit" onclick="disable()" />
    <input id="btnCancel" type="button" value="Submit" onclick="disable()" />
    <script>
        function disable() {
            document.getElementById("btn" + this.name).disabled = true;
        }
    </script>
</body>
```
- C D. 

```
<body>
    <input id="btnSubmit" type="button" value="Submit" onclick="disable(me)" />
    <input id="btnCancel" type="button" value="Submit" onclick="disable(me)" />
    <script>
        function disable(ctrl) {
```

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

**Correct Answer:** A

**Section:** Volume B

#### Explanation

##### Explanation/Reference:

Explanation:

- \* this, in disable(this), refers to the clicked button.
- \* The disabled attribute is a boolean attribute.

When present, it specifies that the <input> element should be disabled.

A disabled input element is unusable and un-clickable.

The disabled attribute can be set to keep a user from using the <input> element until some other condition has been met (like selecting a checkbox, etc.). Then, a JavaScript could remove the disabled value, and make the <input> element usable. Reference: HTML <input> disabled Attribute

#### QUESTION 38

You are developing an HTML5 web application for a surveyor company that displays topographic images.

The application must:

- Display the topographic images at different zoom levels without loss of detail
- Print the topographic images without loss of detail
- Work from only one source file for each topographic image

You need to ensure that the topographic images display according to the requirements.

Which HTML5 element should you use?



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

**Correct Answer:** A

**Section:** Volume B

#### Explanation

##### Explanation/Reference:

Explanation:

- \* SVG stands for Scalable Vector Graphics
- SVG is used to define graphics for the Web
- SVG is a W3C recommendation

\* The HTML <svg> element (introduced in HTML5) is a container for SVG graphics.

SVG has several methods for drawing paths, boxes, circles, text, and graphic images.

Reference: HTML5 SVG



#### QUESTION 39

You are modifying a website. The body of the page will be divided into two sections:

- A content section will contain blog posts and comments.
- An area on the right-hand side will contain advertisements.

The page is defined by the following HTML.

```
<table width="100%" border="1">
<tr>
  <td class="header" colspan="2">
    Welcome to My Blog!
  </td>
</tr>
<tr>
  <td width="70%">
    ...
  </td>
  <td width="30%">
    ...
  </td>
</tr>
<tr>
  <td class="footer" colspan="2">
    ...
  </td>
</tr>
</table>
```



The site must conform to HTML5 standards and must use HTML5 semantic tags.

You need to ensure that the advertisements are on the rightmost section of the page.

Which tag should you use?

- A. <aside>
- B. <div>
- C. <article>
- D. <footer>

**Correct Answer: A**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

Explanation:

The <aside> tag defines some content aside from the content it is placed in.

The aside content should be related to the surrounding content.

aside is now acceptable for secondary content when not nested within an article element.

Reference: HTML <aside> Tag

#### QUESTION 40

You are developing an HTML5 page.

You need to add author and copyright information.

Which tag should you use?

- A. <aside>
- B. <header>
- C. <footer>
- D. <section>

**Correct Answer:** C

**Section:** Volume B



#### Explanation

##### Explanation/Reference:

Explanation:

The footer element represents a footer for its nearest ancestor sectioning content or sectioning root element. A footer typically contains information about its section such as who wrote it, links to related documents, copyright data, and the like.

Reference: The footer element <http://dev.w3.org/html5/spec-preview/the-footer-element.html>

#### QUESTION 41

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

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

- A. Lowercase
- B. Blink
- C. Line-through
- D. 20px

**Correct Answer:** A

**Section:** Volume B

#### **Explanation**

##### **Explanation/Reference:**

Explanation: CSS

Syntax

text-transform: none|capitalize|uppercase|lowercase|initial|inherit;

Reference: CSS text-transform Property

#### **QUESTION 42**

You are creating a JavaScript object that represents an employee.

You need to extend the Employee object by adding the GetPayroll() method.

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

Which code segment should you use?



- C A. Employee.apply.GetPayroll() = function()  
{  
  alert("payroll");  
}
  
- C B. Employee.prototype.GetPayroll = function Employee.GetPayroll()  
{  
  alert("payroll");  
}
  
- C C. Employee.GetPayroll() = function(){  
  alert("payroll");  
}
  
- C D. Employee.prototype.GetPayroll = function()  
{  
  alert("payroll");  
}

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

**Correct Answer:** D

**Section:** Volume B

#### **Explanation**

#### **Explanation/Reference:**

Explanation:

\* Object.prototype.constructor

Returns a reference to the Object function that created the instance's prototype. Note that the value of this property is a reference to the function itself, not a string containing the function's name. The value is only read-only for primitive values such as 1, true and "test".

\* The constructor property is created together with the function as a single property of func.prototype. Reference:

Object.prototype.constructor

#### QUESTION 43

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 1in 0px;
- C. Text-shadow: 72pt 0em 5px;
- D. Text-shadow: 100px 0px 5px;

**Correct Answer:** B

**Section:** Volume B



#### Explanation

##### Explanation/Reference:

Explanation:

We set the second argument (vertical) to one inch (1in).

Note Syntax text-shadow: h-shadow v-  
shadow blur color;

Note: The text-shadow property attaches one or more shadows to text. The property is a comma-separated list of shadows, each specified by 2 or 3 length values and an optional color. Omitted lengths are 0.

\* h-shadow

Required. The position of the horizontal shadow. Negative values are allowed

\* v-shadow

Required. The position of the vertical shadow. Negative values are allowed

\* blur

Optional. The blur distance

\* color

Optional. The color of the shadow.

#### QUESTION 44

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

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

- A. Capitalize
- B. Red
- C. 20px
- D. Italic

**Correct Answer:** A

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

Explanation: CSS

Syntax

text-transform: none|capitalize|uppercase|lowercase|initial|inherit;



Example

Transform text in different elements:

```
h1 {text-transform:uppercase;} h2  
{text-transform:capitalize;} p {text-  
transform:lowercase;}
```

Reference: CSS text-transform Property

[http://www.w3schools.com/cssref/pr\\_text\\_text-transform.asp](http://www.w3schools.com/cssref/pr_text_text-transform.asp)

#### QUESTION 45

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. <table>C. <div>

D. <span>

**Correct Answer:** A

**Section:** Volume B

#### Explanation

#### Explanation/Reference:

Explanation:

The <article> tag specifies independent, self-contained content.

An article should make sense on its own and it should be possible to distribute it independently from the rest of the site.

Potential sources for the <article> element:

- Forum post
- Blog post
- News story
- Comment

#### QUESTION 46

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

```
<div>
    Picture:<br />
    <div id = "picture">
    </div>
</div>
```

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

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

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

**Correct Answer:** AB

**Section:** Volume B

#### Explanation

**Explanation/Reference:**

Explanation:

We use relative position to move the position 5 pixels lower on page.

Using a negative value would move the picture higher on the page.

Note:

\* The top property sets or returns the top position of a positioned element.

This property specifies the top position of the element including padding, scrollbar, border and margin.

Syntax

Set the top property:

Object.style.top="auto|length|%|inherit"

Where:

Length defines the top position in length units. Negative values are allowed

**QUESTION 47**

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. <section>
- B. <tbody>
- C. <div>
- D. <table>

**Correct Answer:** A

**Section:** Volume B

**Explanation****Explanation/Reference:**

Explanation:

The <section> tag defines sections in a document. Such as chapters, headers, footers, or any other sections of the document.

**QUESTION 48**

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

<input id="txtValue"/>[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

You need to change the HTML markup so that customers can enter only a valid three-letter country code.

Which HTML should you use?

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

**Correct Answer:** C

**Section:** Volume B

### Explanation

#### Explanation/Reference:

Explanation:

HTML <input> pattern Attribute

The pattern attribute specifies a regular expression that the <input> element's value is checked against.

Example

An HTML form with an input field that can contain only three letters (no numbers or special characters):

```
<form action="demo_form.asp">
Country code: <input type="text" name="country_code" pattern="[A-Za-
z]{3}" title="Three letter country code"/>
<input type="submit">
</form>
```

Reference: HTML <input> pattern Attribute

[http://www.w3schools.com/tags/att\\_input\\_pattern.asp](http://www.w3schools.com/tags/att_input_pattern.asp)

### QUESTION 49

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

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

- A. Capitalize
- B. Hidden
- C. Italic

D. Line-through

**Correct Answer:** A

**Section:** Volume B

#### Explanation

##### Explanation/Reference:

Explanation:

CSS Syntax

text-transform: none|capitalize|uppercase|lowercase|initial|inherit;

#### Example

Transform text in different elements:

```
h1 {text-transform:uppercase;} h2  
{text-transform:capitalize;} p {text-  
transform:lowercase;}
```

Reference: CSS text-transform Property

[http://www.w3schools.com/cssref/pr\\_text\\_text-transform.asp](http://www.w3schools.com/cssref/pr_text_text-transform.asp)



#### QUESTION 50

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

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

- A. Italic
- B. Line-through
- C. Capitalize
- D. 20px

**Correct Answer:** C

**Section:** Volume B

#### Explanation

##### Explanation/Reference:

Explanation: CSS

Syntax

text-transform: none|capitalize|uppercase|lowercase|initial|inherit;

**Example**

Transform text in different elements:

```
h1 {text-transform:uppercase;} h2  
{text-transform:capitalize;} p {text-  
transform:lowercase;}
```

Reference: CSS text-transform Property

[http://www.w3schools.com/cssref/pr\\_text\\_text-transform.asp](http://www.w3schools.com/cssref/pr_text_text-transform.asp)

**QUESTION 51**

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. <tbody>
- B. <article>
- C. <div>
- D. <span>

**Correct Answer:** B

**Section:** Volume B

**Explanation****Explanation/Reference:**

Explanation:

The <article> tag specifies independent, self-contained content.

An article should make sense on its own and it should be possible to distribute it independently from the rest of the site.

Potential sources for the <article> element:

- Forum post
- Blog post
- News story
- Comment

**QUESTION 52**

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. <span>
- B. <nav>
- C. <cable>
- D. <section>

**Correct Answer:** D

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

Explanation:

The <section> tag defines sections in a document. Such as chapters, headers, footers, or any other sections of the document.

### QUESTION 53

You are developing an HTML5 web application and are styling text. You need to use the text-transform CSS property.

Which value is valid for the text-transform property?



- A. red
- B. hidden
- C. lowercase
- D. italic

**Correct Answer:** C

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

Explanation: CSS

Syntax

text-transform: none|capitalize|uppercase|lowercase|initial|inherit;

Example

Transform text in different elements:

```
h1 {text-transform:uppercase;} h2  
{text-transform:capitalize;} p {text-  
transform:lowercase;}
```

Reference: CSS text-transform Property

[http://www.w3schools.com/cssref/pr\\_text\\_text-transform.asp](http://www.w3schools.com/cssref/pr_text_text-transform.asp)

**QUESTION 54**

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

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

- A. lowercase
- B. 20px
- C. line-through
- D. italic

**Correct Answer: A**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

Explanation: CSS

Syntax

text-transform: none|capitalize|uppercase|lowercase|initial|inherit;

Example

Transform text in different elements:

```
h1 {text-transform:uppercase;} h2  
{text-transform:capitalize;} p {text-  
transform:lowercase;}
```

Reference: CSS text-transform Property

[http://www.w3schools.com/cssref/pr\\_text\\_text-transform.asp](http://www.w3schools.com/cssref/pr_text_text-transform.asp)



**QUESTION 55**

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

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

- A. Italic
- B. Red
- C. Capitalize
- D. Line-through

**Correct Answer:** C

**Section:** Volume B

**Explanation****Explanation/Reference:**

Explanation: CSS

Syntax

text-transform: none|capitalize|uppercase|lowercase|initial|inherit;

**Example**

Transform text in different elements:

```
h1 {text-transform:uppercase;} h2  
{text-transform:capitalize;}
```

```
p {text-transform:lowercase;}
```

Reference: CSS text-transform Property

[http://www.w3schools.com/cssref/pr\\_text\\_text-transform.asp](http://www.w3schools.com/cssref/pr_text_text-transform.asp)

**QUESTION 56**

You develop an HTML5 webpage. You have the following HTML markup: (Line numbers are for reference only.)

```
01 <table>
02   <tr>
03     <th>Fruit</th>
04     <th>Quantity</th>
05     <th>Price</th>
06   </tr>
07   <tr>
08     <td>Apples</td>
09     <td>48</td>
10     <td>$0.29</td>
11   </tr>
12   <tr>
13     <td>Bananas</td>
14     <td>72</td>
15     <td>$0.19</td>
16   </tr>
17   <tr>
18     <td>Watermelon</td>
19     <td>14</td>
20     <td>$3.99</td>
21   </tr>
22 </table>
```

The webpage also contains the following CSS markup:

```
table { border: 1px solid black; font-family: Arial; }
tr:nth-child(odd) { background-color: red; }
tr td:nth-of-type(even) {background-color: blue; }
```

You need to determine how the webpage will appear when the CSS styles are applied.

Select two.

- A. The first row of the table will have a red background.
- B. The second row of the table will have a red background.
- C. The second cell in the first row of the table will have a blue background.
- D. The second cell in the third row of the table will have a blue background.

E. The second cell in the third row of the table will have not have blue background.

**Correct Answer:** AE

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

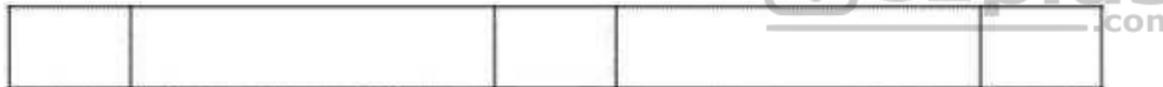
Explanation:

Fruit	Quantity	Price
Apples	48	\$0.29
Bananas	72	\$0.19
Watermelon	14	\$3.99

#### QUESTION 57

You develop a webpage.

The webpage must display a grid that contains one row and five columns. Columns one, three, and five are the same width. Columns two and four are the same width, but much wider than columns one, three, and five. The grid resembles the following image:



The grid must meet the following requirements:

- Each row must be tall enough to ensure that images are not cut off.
- Each row must contain five columns.
- The width of the columns must not change when the screen is resized or rotated.

You need to define the style for the grid. Which CSS3 style should you use?

- A. 

```
<style type="text/css">
  #grid {
    display: -ms-grid;
    -ms-grid-columns: 2fr (3fr 2fr)[2];
    -ms-grid-rows: auto;
  }
</style>
```
- B. 

```
<style type="text/css">
  #grid {
    display: -ms-grid;
    -ms-grid-columns: 100px (250px 100px)[2];
    -ms-grid-rows: min-content;
  }
</style>
```
- C. 

```
<style type="text/css">
  #grid {
    display: -ms-grid;
    -ms-grid-columns: 100px 250px 100px 250px 100px;
    -ms-grid-rows: auto;
  }
</style>
```
- D. 

```
<style type="text/css">
  #grid {
    display: -ms-grid;
    -ms-grid-columns: 100px 250px 100px 250px 100px;
    -ms-grid-rows: min-content;
  }
</style>
```

A. Option A B.  
Option B

C. Option C  
D. Option D

**Correct Answer:** C

**Section:** Volume B

### Explanation

#### Explanation/Reference:

Explanation:

\* -ms-grid-rows property auto

The height of a row is computed based on the tallest child element in that column.

Incorrect Answers:

A: The width of the columns must not change when the screen is resized or rotated.  
B, D: -ms-grid-rows property min-content

The minimum height of any child elements is used as the height of the row.

Note:

\* width

The width of each column specified as one of the following values:

A length consisting of an integer number, followed by an absolute units designator ("cm", "mm", "in", "pt", or "pc") or a relative units designator ("em", "ex", or "px").

A percentage of the object width.

A proportion of the remaining horizontal space (that is, the object width, less the combined widths of other tracks), consisting of an integer number followed by a fractional designator ("fr"). For example, if "200px 1fr 2fr" is specified, the first column is allocated 200 pixels, and the second and third columns are allocated 1/3 and 2/3 of the remaining width, respectively.

### QUESTION 58

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?



C 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>
```

C B. Add the following SCRIPT element after the DIV element:

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

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

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

C 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

**Correct Answer: D**

**Section: Volume B** [www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

## Explanation

### Explanation/Reference:

Explanation:

Example:

CSS File:

```
ul {  
    border: 1px solid black;  
}
```

Inline CSS:

```
<ul class="container" style="border: 1px solid black">
```

## QUESTION 59

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()" [www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

- 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;`

**Correct Answer:** A

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### QUESTION 60

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)

**Correct Answer:** C

**Section:** Volume B

### Explanation

#### Explanation/Reference:

Explanation:

\* [attribute]

[target]

Selects all elements with a target attribute

\* :not(selector)not(p)

Selects every element that is not a <p> element

Reference: CSS Selector Reference



### QUESTION 61

You create an application that sends information to a web service by using the following code: (Line numbers are included for reference only.)

```
01 function CustomError(code) {  
02     this.errorCode = code;  
03 }  
04  
05 var code = send();  
06 if (code != 0) {  
07     throw new CustomError(code);  
08 }
```

When the web service returns a non-zero result code, you must raise an exception that contains the result code.

You need to implement the code that generates the exception.

Which line of code should you insert at line 04?

- A. CustomError.prototype = Error.prototype;
- B. CustomError ["ErrorType"] Error;

- C. CustomError.customError = true;
- D. Error-constructor = CustomError;

**Correct Answer:** A

**Section:** Volume B

### Explanation

#### Explanation/Reference:

Explanation:

\* Object.prototype.constructor

Returns a reference to the Object function that created the instance's prototype. Note that the value of this property is a reference to the function itself, not a string containing the function's name. The value is only read-only for primitive values such as 1, true and "test".

\* The constructor property is created together with the function as a single property of func.prototype. Reference:

Object.prototype.constructor

### QUESTION 62

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

```
<input id= "textAccountType"/>
```



You need to develop the form so that customers can enter only a valid account type consisting of two English alphabet characters.

Which code segment should you use?

C A. function validate() {  
 var value = \$("#txtAccountType").text();  
 if (value == null || value == "")  
 alert("please enter valid account type");  
 return;  
}

C B. function validate() {  
 var value = \$("#txtAccountType").val();  
 var regex = /^[A-Za-z]{2}\$/;  
 if (!regex.test(value) || value == "")  
 alert("please enter valid account type");  
 return;  
}

C C. function validate() {  
 var value = \$("#txtAccountType").val();  
 if (value == null || value == "")  
 alert("please enter valid account type");  
 return;  
}

C D. function validate() {  
 var value = \$("#txtAccountType").text();  
 var regex = /^[A-Za-z]{2}\$/;  
 if (!regex.test(value) || value == "")  
 alert("please enter valid account type");  
 return;  
}

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

**Section: Volume B****Explanation****Explanation/Reference:**

Explanation:

HTML <input> pattern Attribute

The pattern attribute specifies a regular expression that the <input> element's value is checked against.

**Example**

An HTML form with an input field that can contain only two letters (no numbers or special characters):

```
<form action="demo_form.asp">  
Country code: <input type="text" name="country_code" pattern="[A-Za-  
z]{2}" title="Three letter country code"/>  
<input type="submit"/>  
</form>
```

Reference: HTML <input> pattern Attribute

[http://www.w3schools.com/tags/att\\_input\\_pattern.asp](http://www.w3schools.com/tags/att_input_pattern.asp)

**QUESTION 63**

You are developing an application that uses a JavaScript library. The library contains the following functions.

```
function ValidationException(number, message) {
    this.message = message;
    this.name = "myLibrary Validation Exception";
    this.number = number;
}

function LogicException(number, message) {
    this.message = message;
    this.name = "myLibrary Logic Exception";
    this.number = number;
}

function myFunction(dayOfWeek) {
    if (dayOfWeek > 7) {
        throw new ValidationException(123, "Day of week must be less than 7");
    }
}
```



The application uses the following code. (Line numbers are included for reference only.)

```
01 function doWork(value) {
02     try {
03         myFunction(value)
04     } catch (e) {
05
06     }
07 }
```

The library may throw many types of exceptions. The exceptions are grouped by category.

You need to catch and identify the exceptions by group.

Which code segment should you insert at line 05?

C A. if (typeof (e) == "ValidationException") {  
    handleValidationException (e.message);  
} else if (typeof (e) == "LogicException") {  
    handleLogicException (e.message);  
} else {  
    throw e;  
}

C B. if (e instanceof ValidationException) {  
    handleValidationException(e.message);  
} else if (e instanceof LogicException) {  
    handleLogicException (e.message);  
} else {  
    throw e;  
}

C C. switch (e) {  
    case ValidationException:  
        handleValidationException (e.message);  
        break;  
    case LogicException:  
        handleLogicException (e.message);  
        break;  
    default:  
        throw e;  
}

C D. if (e.message == "ValidationException") {  
    handleValidationException (e.message);  
} else if (e.message == "LogicException") {  
    handleLogicException (e.message);  
} else {  
    throw e;  
}

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

**Correct Answer: B**

**Section: Volume B**

### Explanation

#### Explanation/Reference:

Explanation:

The instanceof operator tests whether an object has in its prototype chain the prototype property of a constructor.

The instanceof operator tests presence of constructor.prototype in object prototype chain.

Example::

```
// defining constructors
function C(){}
function D(){}
D(){} var o = new C();

// true, because: Object.getPrototypeOf(o) === C.prototype
o instanceof C;
```

```
// false, because D.prototype is nowhere in o's prototype chain
o instanceof D;
```



Reference: instanceof

### QUESTION 64

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 to 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";

**Correct Answer: C**

**Section: Volume C**

## Explanation

### Explanation/Reference:

#### QUESTION 65

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 type="tel" min="1" max="12" />
- C. <input type="range" min="1" max="12" />
- D. <input type="month" itemscope="numeric" />

**Correct Answer:** C

**Section:** Volume C



## Explanation

### Explanation/Reference:

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 66

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

**Correct Answer:** C

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

Explanation:

\* SVG stands for Scalable Vector Graphics

SVG is used to define graphics for the Web

SVG is a W3C recommendation

\* The HTML <svg> element (introduced in HTML5) is a container for SVG graphics.

SVG has several methods for drawing paths, boxes, circles, text, and graphic images.

Reference: HTML5 SVG

### QUESTION 67

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.)



<http://vceplus.com/>

- 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.

**Correct Answer:** BD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

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 68**

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?



- C A. function checkConnection()  
{  
 if (navigator.isOnline) {  
 ...  
 }  
}
- C B. function checkConnection()  
{  
 if (browser.isOnline) {  
 ...  
 }  
 else  
 {  
 ...  
 }  
}
- C C. function checkConnection()  
{  
 if (browser.online) {  
 ...  
 }  
 else  
 {  
 ...  
 }  
}
- C D. function checkConnection()  
{  
 if (navigator.online) {  
 ...  
 }  
 else  
 {  
 ...  
 }  
}

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

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

Explanation:

Navigator onLine Property

The onLine property returns a Boolean value that specifies whether the browser is in online or offline mode.

Example Find out whether the browser  
is online:

```
var x = "Is the browser online? " + navigator.onLine;
```

The result of x will be:

Is the browser online? true

Reference: Navigator onLine Property



### QUESTION 69

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();

**Correct Answer:** C

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

Explanation:

With jQuery, you can hide and show HTML elements with the hide() and show() methods:

Example

```
$("#hide").click(function(){
    $("p").hide();
});

$("#show").click(function(){
    $("p").show();
});
```

Reference: [jQuery Effects - Hide and Show](#)

## QUESTION 70

HOTSPOT

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.

**Hot Area:**

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

Correct Answer:

Yes	No	Description of customer.name variable
<input checked="" type="radio"/>	<input 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

**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

Explanation:

The variable customer is undefined, as it outside the scope of the function, at line alert(customer.name);

**QUESTION 71**

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.asmx/GetPopulationCity?city='Boston'",  
    dataType: "text", type: "POST"  
});
```
- B. 

```
$ajax({  
    url: "Services/WSAjax.asmx/GetPopulationCity",  
    dataType: "text", type: "SEND", data: { city: "Boston" }  
});
```
- C. 

```
$ajax({  
    url: "Services/WSAjax.asmx/GetPopulationCity?city='Boston'",  
    dataType: "text", type: "SEND"  
});
```
- D. 

```
$ajax({  
    url: "Services/WSAjax.asmx/GetPopulationCity",  
    dataType: "text", type: "POST", data: { city: "Boston" }  
});
```

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

**Correct Answer:** D

**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

Explanation:  
\* type:

We post a SOAP request.

\* data:

Data to be sent to the server.

The data option can contain either a query string of the form key1=value1&key2=value2, or an object of the form {key1: 'value1', key2: 'value2'}.

Reference: [jQuery.ajax\(\)](#)

## QUESTION 72

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>

**Correct Answer: C**

**Section: Volume C**

### Explanation

#### Explanation/Reference:

Explanation:

The <hgroup> tag is used to group heading elements.

The <hgroup> element is used to group a set of <h1> to <h6> elements, when a heading has multiple levels (subheadings).

Reference: [HTML <hgroup> Tag](#)

## QUESTION 73

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



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

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

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

Explanation:

\* url: /product/createThis is the endproduct.

\* datatype:

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

The type of data that you're expecting back from the server.

\* contentType (default: 'application/x-www-form-urlencoded; charset=UTF-8')

Reference: `jQuery.ajax()`

#### QUESTION 74

You develop a webpage that allows a user to download a JPEG 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()`

**Correct Answer:** B

**Section:** Volume C

**Explanation**



#### Explanation/Reference:

Explanation:

The `readAsArrayBuffer` method is used to read a File, Blob, MSSstream into memory as an ArrayBuffer object.

Reference: `FileReader.readAsArrayBuffer`

#### QUESTION 75

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>`

**Correct Answer:** A

**Section:** Volume C

## Explanation

### Explanation/Reference:

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 76

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`

**Correct Answer:** C

**Section:** Volume C

**Explanation****Explanation/Reference:****QUESTION 77**

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"`

**Correct Answer:** B

**Section: Volume C****Explanation****Explanation/Reference:**

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 78**

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?

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

C B. if (!/^A-Za-z0-9\_+/.test(input.value))  
    input.value = "Invalid";

C C. var regEx = new RegExp("^\w");  
    if (!input.value.match(regEx))  
        input.value = "Invalid";

C 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

**Correct Answer:** A

**Section:** Volume C

#### Explanation

#### Explanation/Reference:

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. –

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. Reference: JavaScript : HTML Form validation - checking for all letters

### QUESTION 79

You are creating an HTML5 application that allows users to play video on a page by using the `VIDEO` element.

You need to enable the user to start, stop, and pause the video.



Which line of code should you add to the page?

- A. `<video id= "myVideo" height="320" width="400" src="myVideo.vtt" contextmenu="pauseplay"> </video>`
- B. `<video id="myVideo" height="320" width="400" src="myVideo.vtt" controls> </video>`
- C. `<video _d="myVideo" height="320" width="400" src="myVideo.vtt" autoplay> </video>`
- D. `<video id="myVideo" height="320" width="400" src="myVideo.vtt" contextmenu="Startstopn> </video>`

**Correct Answer:** B

**Section:** Volume C

**Explanation**

#### Explanation/Reference:

Explanation:

The HTML `<video>` Element

To show a video in HTML, use the `<video>` element:

The `controls` attribute adds video controls, like play, pause, and volume.

Example

```
<video width="320" height="240" controls>
```

```
<source src="movie.mp4" type="video/mp4">
<source src="movie.ogg" type="video/ogg"> Your
browser does not support the video tag.
</video>
```

Reference: HTML5 Video

#### QUESTION 80

You are creating a web page that contains a canvas with text.

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

```
01 var canvas = document.getElementById('myCanvas');
02 var context = canvas.getContext('2d');
03
```

The text on the canvas must rotate 90 degrees when a user clicks a button on the page.

You need to ensure that the text rotates when the user clicks the button.

Which line of code should you add at line 03?



- A. context.transform(90);
- B. context.content.getRotation(90);
- C. context.rotate(90);
- D. context.content.rotate (90);

**Correct Answer:** C

**Section:** Volume C

#### Explanation

##### Explanation/Reference:

Explanation:

The rotate() method rotates the current drawing.

Example

Rotate the rectangle 20 degrees:

JavaScript:

```
var c=document.getElementById("myCanvas");
```

```
var ctx=c.getContext("2d");
ctx.rotate(20*Math.PI/180);
ctx.fillRect(50,20,100,50);
```

Reference: HTML canvas rotate() Method

### QUESTION 81

You develop an HTML5 webpage that contains the following HTML markup:

```
<label for="loanTypes">Loan Types</label>
<select name="loanTypes" id="loanTypes" multiple="multiple">
    <option>Secured</option>
    <option selected="selected">Unsecured</option>
    <option>Demand</option>
    <option selected="selected">Subsidized</option>
</select>
```

You have the following requirements:

- Retrieve the content for any OPTION elements when the value of the selected attribute equals selected.
- Add the content to a comma separated string.

You need to retrieve the required data.



Which two code segments should you add to the webpage? (Each correct answer presents a complete solution. Choose two.)

- A. 

```
$("select option:checked").each(function () {
    selectedValues += $(loanTypes).text() + ',';
});
```
- B. 

```
$("select option:selected").each(function () {
    selectedValues += $(loanTypes).text() + ',';
});
```
- C. 

```
$("select option:selected").each(function () {
    selectedValues += $(this).text() + ',';
});
```
- D. 

```
$("#loanTypes option:selected").each(function () {
    selectedValues += $(this).text() + ',';
});
```
- E. 

```
$("#loanTypes option:checked").each(function () {
    selectedValues += $(loanTypes).text() + ',';
});
```

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

**Correct Answer:** BD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

Explanation:

Note:

\* select option:selected

:selected Selector

**Description:** Selects all elements that are selected.

**QUESTION 82**

You develop an HTML5 application. You give users a numeric access code that can be used only one time.

Users must enter the numeric access code in the login form of the application. The numeric characters must be hidden by a masking character.

You need to implement the form element for users to enter the code.

Which HTML element should you use?

- A. <input type="password" required autocomplete="off">
- B. <input type="input" autocomplete="off" required />
- C. <input type="password" stystem" visibility:hidden;" required />
- D. <input type="button" value="password" required />



**Correct Answer:** A

**Section:** Volume C

**Explanation****Explanation/Reference:**

Explanation:

\* Input Type: password

<input type="password"> defines a password field.

The characters in a password field are masked (shown as asterisks or circles).

\* The autocomplete attribute specifies whether or not an input field should have autocomplete enabled.

The autocomplete attribute works with the following <input> types: text, search, url, tel, email, password, datepickers, range, and color.

Reference: HTML Input Types ; HTML <input> autocomplete Attribute

**QUESTION 83**

You are developing an HTML5 web application that displays stock information.

The application loads information from a web service by using AJAX.

The following code defines a Stock object and loads stock data.

```
function Stock(symbol) {  
    this.symbol = symbol;  
    this.low = 0;  
    this.high = 0;  
}  
  
Stock.prototype.parseStock = function (data) {  
    this.low = data.low;  
    this.high = data.high;  
}  
  
Stock.prototype.loadStock = function () {  
}
```

You need to implement the loadStock function.

Which code segment should you use?



- C A. var stock = this;  
\$.get('data.xml', function (data) {  
 stock.parseStock(data);  
});
  
- C B. \$.get('data.xml', function (data, innerScope) {  
 innerScope.parseStock(data);  
});
  
- C C. \$.get('data.xml', function (data) {  
 this.parseStock(data);  
});
  
- C D. \$.get('data.xml', function (data) {  
 (function (scope) {  
 scope.parseStock(data);  
 })(data);  
});



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

**Correct Answer:** A

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### QUESTION 84

DRAG DROP

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

You are developing an application by using JavaScript.

You must write a function named Add that returns the sum of the variables named v1, v2, v3, v4. The addValues function must call the Add function and use the appropriate owner object.

You need to complete the sum function.

How should you complete the relevant code? (To answer, drag the appropriate code segment or segments to the correct location or locations in the answer area. Use only code segments that apply.)

**Select and Place:**

**Code segments**

```
v3+v4;  
o.v3+o.v4;  
this.v3+this.v4;  
this.o.v3+this.O.v4;  
add (o, 15, 3);  
add (15, 3) + o;  
add.call (o, 15, 3);  
add.apply(o, 15, 3);
```

**Answer Area**

```
<script>  
function add(v1, v2) {  
    return v1+v2+   
}  
function addValues() {  
    var o = { v3: 10, v4: 13};  
    var res =   
    return res;  
}  
</script>
```

**Correct Answer:**

## Code segments

v3+v4;

o.v3+o.v4;

this.o.v3+this.o.v4;

add (o, 15, 3);

add (15, 3) + o;

add.apply(o, 15, 3);

## Answer Area

```
<script>
    function add(v1, v2) {
        return v1+v2+ this.v3+this.v4;
    }
    function addValues() {
        var o = { v3: 10, v4: 13};
        var res = add.call (o, 15, 3);
        return res;
    }
</script>
```

## Section: Volume C

## Explanation

## Explanation/Reference:

## Explanation:

\* What is the difference between call and apply? apply lets you invoke the function with arguments as an array; call requires the parameters be listed explicitly.

## Pseudo syntax:

```
theFunction.apply(valueForThis, arrayOfArgs)  
theFunction.call(valueForThis, arg1, arg2, ...)
```

Reference: What is the difference between call and apply?

**QUESTION 85**

You are developing a web page that includes the following HTML.

```
<span id = "myTextSpan" class = "redText"> Hello There! </span>
```

The font color of text inside the span must be red.

You need to develop the web page to meet the requirement.

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



- A. 

```
.redText
{
    color: red;
}
```
- B. 

```
.myTextSpan
{
    color: red;
}
```
- C. 

```
span#myTextSpan
{
    color: red;
}
```
- D. 

```
#redText
{
    color: red;
}
```



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

**Correct Answer:** AC

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

Explanation:

You can refer to class, by .redText, or the span, by span#myTextSpan.

#### **QUESTION 86**

You are troubleshooting an application.

Users report that the UI is slow to respond.

You need to improve UI responsiveness by moving application tasks to web workers.

Which two tasks can you move to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. A function that loops through the Document Object Model to update the style of page elements
- B. A long-running calculation that requires looping through an array



<http://vceplus.com/>

- C. A function that performs graphic-intensive animation
- D. A function that stores large amounts of data to local storage



**Correct Answer:** BC

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation:

Note:

\* Despite the improvements in JavaScript engines, it is not uncommon for users to encounter frozen user interfaces as the browser works through resource intensive tasks. This leads to a horrible user experience. The purpose of Web Workers is to give developers a way of instructing the browser to process large tasks in the background; therefore preventing the UI from freezing up.

\* The Web Workers specification defines an API for spawning background scripts in your web application. Web Workers allow you to do things like fire up longrunning scripts to handle computationally intensive tasks, but without blocking the UI or other scripts to handle user interactions

## QUESTION 8

You develop an interactive scalable vector graphic (SVG) application.

You write the following code (Line numbers are included for reference only.):

```
01 <script>
02
03 </script>
04 <svg height="150" width="150" id="myGraphic">
05   <circle cx="25" r="20" cy="20" fill="orange" id="myCircle"/>
06 </svg>
07 <button id="zoom" onclick="zoomIn();">Zoom In</button>
```

You need to increase the size of the circle by 50 percent.

Which code segment should you insert at line 02?



- C A. 

```
function zoomIn() {
    var myGraphic = document.getElementById("myGraphic");
    myGraphic.createSVGTransform(1.5);
}
```
- C B. 

```
function zoomIn() {
    var myGraphic = document.getElementById("myGraphic");
    myGraphic.setAttribute("currentScale", 1.5);
}
```
- C C. 

```
function zoomIn() {
    var myCircle = document.getElementById("myCircle");
    myCircle.setAttribute("currentScale", 1.5);
}
```
- C D. 

```
function zoomIn() {
    var myCircle = document.getElementById("myCircle");
    myCircle.r = myCircle.r * 1.5;
}
```

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

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation:

Increase the radius (the r property) of the circle (not the graphic) by a factor 1.5.

Incorrect:

CurrentScale is used for zooming.

Reference: The HTML <svg> Element

#### QUESTION 88

You develop an HTML5 webpage. You have the following HTML markup:

```
<label for="personname">Given and Surname:</label>
<input type="text" name="personname" /><br />

<label for="businessname">Business Name:</label>
<input type="text" name="businessname" /><br />

<label for="emailaddress">Email Address:</label>
<input type="text" name="emailaddress" />
```

You need to change the background color for all of the elements whose name attribute ends with the word name.

Which code segment should you add to the webpage?

- A. `$(input [name!="name"]).css ({ 'background-color' : '#E0ECF8'}) ;`
- B. `$(input [name=~"~name"] ).css ({ 'background-color' : '#E0ECF8' }) ;`
- C. `$(input[name="*name"]).css({background-color: #E0ECF8});`
- D. `$( input [name="$name"] ) .css ({ 'background-color' : '#E0ECF8'}) ;`

**Correct Answer:** C

**Section:** Volume D

#### Explanation

##### Explanation/Reference:

Explanation:

The string pattern "\*name" matches all strings that ends with name.

#### QUESTION 89

You develop an HTML application that is located at [www.adventure-works.com](http://www.adventure-works.com).

The application must load JSON data from [www.fabrikam.com](http://www.fabrikam.com).

You need to choose an approach for loading the data.

What should you do?

- A. Design a REST URI scheme with multiple domains.
- B. Configure Cross-Origin Resource Sharing (CORS) on the servers.
- C. Load the data by using WebSockets.
- D. Use the jQuery getJSON method.

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation:

\* Cross-origin resource sharing (CORS) is a mechanism that allows Javascript on a web page to make XMLHttpRequests to another domain, not the domain the Javascript originated from. Such "cross-domain" requests would otherwise be forbidden by web browsers, per the same origin security policy. CORS defines a way in which the browser and the server can interact to determine whether or not to allow the cross-origin request. It is more powerful than only allowing same-origin requests, but it is more secure than simply allowing all such cross-origin requests.

\* You must use Cross Origin Resource Sharing



It's not as complicated as it sounds...simply set your request headers appropriately...in Python it would look like:

```
self.response.headers.add_header('Access-Control-Allow-Origin', '*'); self.response.headers.add_header('Access-Control-Allow-Methods', 'GET, POST, OPTIONS'); self.response.headers.add_header('Access-Control-Allow-Headers', 'X-Requested-With'); self.response.headers.add_header('Access-Control-Max-Age', '86400');
```

## QUESTION 90

You are building a web page for a newspaper publisher.

You have the following requirements:

- The web page should split the content into columns that are at least 100 pixels wide.
- The number of columns displayed must be set by the browser.

You need to implement the correct CSS properties.

Which line of code should you use?

- A. <div id="outer" style="width: 100px; column-fill: balance;">...</div>
- B. <div id="outer" style="width: 100px; column-gap: 10px;">...</div>
- C. <div id="outer" style="column-width: 100px;">...</div>

D. <div id="outer" style="width: 100px; columns: 100px 3">...</div>

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation: column-width

The width attribute specifies the width of a <col> element.

Normally, a <col> element takes up the space it needs to display the content. The width attribute is used to set a predefined width of a <col> element.

Syntax:

<col width="pixels|%|relative\_length">

#### **QUESTION 91**

You develop a webpage with a standard input control by using HTML5.

The input control must display the text Enter your given name, as shown below:

Enter your given name

When a user selects the input control, the text must disappear.

You need to create the input control.

Which input control should you use?

- A. <input name="GivenName" value=" Enter your given name" />
- B. <input name ="GivenName" default=" Enter your given name" />
- C. <input name="GivenName" text=" Enter your given name" />
- D. <input name="GivenName" placeholder=" Enter your given name" />

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation:

The placeholder attribute specifies a short hint that describes the expected value of an input field (e.g. a sample value or a short description of the expected format).

The short hint is displayed in the input field before the user enters a value.

The placeholder attribute works with the following input types: text, search, url, tel, email, and password.

Reference: HTML <input> placeholder Attribute

## QUESTION 92

You develop an HTML5 webpage. You have the following HTML markup:

```
<section id="news">
  <h1>World News</h1>
  <article id="news1">...</article>
  <article id="news2">...</article>
  <article id="news3">...</article>
</section>
<section id="sports">
  <h1>Sports</h1>
  <article id="sports1">...</article>
  <article id="sports2">...</article>
  <article id="sports3">...</article>
</section>
```

You need to add a background color to the first article in each section.

Which code segment should you add to the webpage?

- A. \$("section article:first-child").css("background-color", "#f2f2f2");
- B. \$("section:first-child").css ("background-color", "#f2f2f2");
- C. \$("article:first-of-type") .css("background-color", "#f2f2f2");
- D. \$("section:first-of-type").css("background-color", "#f2f2f2");

**Correct Answer: C**

**Section: Volume D**

### Explanation

#### Explanation/Reference:

Explanation:

The :first-of-type selector matches every element that is the first child, of a particular type, of its parent.

Reference: CSS3 :first-of-type Selector

### QUESTION 93

You are creating a custom object as described by the following code.

```
function square(side) {  
    this.side = side;  
    this.area = calcArea;  
}
```

You need to implement the calcArea method.

Which code should you use?

- A. 

```
function calcArea () {  
    return me.side * me.side;  
}
```
- B. 

```
function calcArea (obj) {  
    return obj.side * obj.side;  
}
```
- C. 

```
function calcArea () {  
    return side * side;  
}
```
- D. 

```
function calcArea () {  
    return this.side * this.side;  
}
```

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

**Correct Answer:** D

**Section:** Volume D

### Explanation

#### Explanation/Reference:

Explanation:

Need to refer to .this in the calculation.

### QUESTION 94

You are developing an HTML5 web form to collect feedback information from site visitors.

The web form must display an INPUT element that meets the following requirements:

- Allow numeric values between 1 and 10.
- Default to the value of 5.
- Display as a slider control on the page.

You need to add the INPUT element to the form.

Which HTML element should you add?



- A. Rating (Between 1 and 10): <input type="number" name="rating" min="1" max="10">
- B. Rating (Between 1 and 10): <input type="number" name="rating" min="1" max="10" default="5">
- C. Rating (Between 1 and 10): <input type="range" name="rating" min="1" max="10" default="5">
- D. Rating (Between 1 and 10): <input type="range" name="rating" min="1" max="10" value="5">

**Correct Answer:** C

**Section:** Volume D

### Explanation

#### Explanation/Reference:

Explanation:

input type="range"

The <input type="range"> is used for input fields that should contain a value within a range.

Depending on browser support, the input field can be displayed as a slider control.

Example

```
<form>
  <input type="range" name="points" min="0" max="10"/>
</form>
```

**QUESTION 95**

You develop an HTML5 application. The application uses an image that is returned from an HTTP POST request.

You develop the following code: (Line numbers are included for reference only.)

```
01 var xhr = new XMLHttpRequest();
02 xhr.open('POST', '/Images/heroAccent.png', true);
03 var img = document.createElement('img');
04
05 xhr.send();
```

You need to display the loaded image in the application.

Which code segment should you insert at line 04?



C A    xhr.responseType = 'blob';  
xhr.onload = function (e) {  
 if (this.status == 200) {  
 img.src = window.URL.createObjectURL(this.responseText);  
 document.body.appendChild(img);  
 }  
};

C B    xhr.responseType = 'blob';  
xhr.onload = function(e) {  
 if (this.status == 200) {  
 img.src = window.URL.createObjectURL(this.response);  
 document.body.appendChild(img);  
 }  
};

C C    xhr.responseType = 'document';  
xhr.onload = function (e) {  
 if (this.status == 200) {  
 img.src = window.URL.createObjectURL(this.responseText);  
 document.body.appendChild(img);  
 }  
};

C D    xhr.responseType = 'document';  
xhr.onload = function (e) {  
 if (this.status == 200) {  
 img.src = window.URL.createObjectURL(this.response);  
 document.body.appendChild(img);  
 }  
};

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

**Correct Answer:** B

**Section:** Volume D

### **Explanation**

#### **Explanation/Reference:**

Explanation:

As an image will be returned the response type must be blob, not document.

Similarly, this.response must be used not this.responseText.

Reference: createObjectURL method

### **QUESTION 96**

You develop an HTML5 webpage that contains the following HTML markup:

```
<input id="loanTermTextBox" type="text" />
```

Users must enter a valid integer value into the text box.

You need to validate the data type that is received from the input element.

Which two code segments should you include on the webpage? (Each correct answer presents a complete solution. Choose two.)

- A. 

```
function validateForm() {
    var loanTermInput = document.getElementById("loanTermTextBox");
    var loanTerm = parseInt(loanTermInput.value, 10);
    if (isNaN(loanTerm) || loanTerm.toString() !== loanTermInput.value) {
        alert("Loan Term must be an integer");
        return false;
    }
    return true;
};
```
- B. 

```
var validateForm = function () {
    var loanTermInput = document.getElementById("loanTermTextBox");
    var loanTerm = parseInt(loanTermInput.value, 10);
    if (isNaN(loanTerm) || loanTerm.toString() !== loanTermInput.value) {
        alert("Loan Term must be an integer");
        return false;
    }
    return true;
};
```
- C. 

```
var validateForm = function () {
    var loanTermInput = document.getElementsByName("loanTermTextBox");
    var loanTerm = parseFloat(loanTermInput.value);
    if (!isNaN(loanTerm) || loanTerm.toString() !== loanTermInput.value) {
        alert("Loan Term must be an integer");
        return false;
    }
    return true;
};
```
- D. 

```
var validateform = function () {
    var loanTermInput = document.getElementByld("loanTermTextBox").
```

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

**Correct Answer:** AB

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation:

\* parseInt

The parseInt() function parses a string and returns an integer.

Syntax: `parseInt(string,radix)` *string* Required. The string to be parsed *radix* Optional. A number (from 2 to 36) that represents the numeral system to be used.

\* The isNaN() function determines whether a value is an illegal number (Not-a-Number).

This function returns true if the value is NaN, and false if not.

Reference: JavaScript parseInt() Function; JavaScript isNaN() Function



### QUESTION 97

You develop an HTML5 application for a company. Employees must enter a personal identification number (PIN) in an INPUT element named SecurityCode to access their employee records.

The SecurityCode element must meet the following requirements:

- Allow up to 6 digits.
- Do not display numbers as they are entered.
- Display the text Enter PIN Code before the user enters any data.

You need to implement the SecurityCode element.

Which HTML markup should you add to the application?

- C A. 

```
<input name="SecurityCode"
      type="text"
      maxlength="6"
      title="Enter PIN Code"
      pattern="*****"
    />
```
- C B. 

```
<input
      name="SecurityCode"
      type="text"
      maxlength="6"
      title="Enter PIN Code"
      pattern="*****"
    />
```
- C C. 

```
<input
      name="SecurityCode"
      type="password"
      size="6"
      placeholder="Enter PIN Code"
      pattern="*****"
    />
```
- C D. 

```
<input name="SecurityCode"
      type="password"
      maxlength="6"
      placeholder="Enter PIN Code"
    />
```
- C E. 

```
<input name="SecurityCode"
      type="password"
      maxlength="6"
    />
```

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

**Correct Answer:** D

**Section:** Volume D

#### **Explanation**

#### **Explanation/Reference:**

Explanation:

\* Input Type: password

<input type="password"> defines a password field.

The characters in a password field are masked (shown as asterisks or circles).

\* The placeholder attribute specifies a short hint that describes the expected value of an input field (e.g. a sample value or a short description of the expected format).

The short hint is displayed in the input field before the user enters a value.

The placeholder attribute works with the following input types: text, search, url, tel, email, and password.

Reference: [HTML Input Types](#) ; [HTML <input> placeholder Attribute](#)

#### **QUESTION 98**

You develop an application to host user-generated HTML and JavaScript content.

A common error handler in your application must process all unhandled errors.

You need to implement global error handling for the application.

Which code segment should you use?

- C A. window.onerror = function () {  
 ...  
}
  
- C B. Error.constructor = function () {  
 ...  
}
  
- C C. Error = function () {  
 ...  
}
  
- C D. document.onerror = function () {  
 ...  
}



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

**Correct Answer:** A

**Section:** Volume D

#### **Explanation**

#### **Explanation/Reference:**

Explanation:

GlobalEventHandlers.onerror

An event handler for runtime script errors.

Syntax window.onerror =  
funcRef;

Reference: GlobalEventHandlers.onerror

### QUESTION 99

You are creating a custom function. You pass an object named testObj to the function as a parameter. You do not use inheritance through the functions.

The function must establish whether testObj inherits from another object named parentObj.

You need to ensure that the function performs as required.

Which method or operator should you add to the function?

- A. parentObj.instanceof(testObj)
- B. testObj.isPrototypeOf(parentObj)
- C. testObj.instanceof(parentObj)
- D. parentObj.isPrototypeOf(testObj)

**Correct Answer:** B

**Section:** Volume D

**Explanation**



#### Explanation/Reference:

Explanation:

The isPrototypeOf() method tests for an object in another object's prototype chain.

Reference: Object.prototype.isPrototypeOf()

### QUESTION 100

You develop an HTML5 webpage. You have the following HTML markup:

```
Total Products: <span id="products"></span><br />
Total Boxes: <span id="boxes"></span><br />
<input type="button" id="addOneItem" value="Add one item to the order" />
<input type="button" id="addBoxOfItems" value="Add a box to the order" />
```

You need to call the click event for the addOneItem button a determined number of times when the user clicks the addBoxOfItems button.

Which code segment should you add to the webpage?

C A. `$('#addBoxOfItems').on(function (event) {  
 for (var i = 0; i < itemsPerBox; i++) {  
 $('#addOneItem').trigger('click');  
 }  
});`

C B. `$('#addBoxOfItems').click(function (event) {  
 for (var i = 0; i < itemsPerBox; i++) {  
 $('#addOneItem').click('click');  
 }  
});`

C C. `$('#addBoxOfItems').on(function (event) {  
 for (var i = 0; i < itemsPerBox; i++) {  
 $('#addOneItem').click();  
 }  
});`

C D. `$('#addBoxOfItems').click(function (event) {  
 for (var i = 0; i < itemsPerBox; i++) {  
 $('#addOneItem').trigger('click');  
 }  
});`



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

**Correct Answer:** D

**Section:** Volume D

#### Explanation

#### Explanation/Reference:

Explanation:

jQuery provides a way to trigger the event handlers bound to an element without any user interaction via the `.trigger()` method.

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

jQuery's event handling system is a layer on top of native browser events. When an event handler is added using `.on( "click", function() {} )`, it can be triggered using jQuery's `.trigger( "click" )` because jQuery stores a reference to that handler when it is originally added. Additionally, it will trigger the JavaScript inside the `onclick` attribute.

Reference: Triggering Event Handlers

### QUESTION 101

You develop an HTML application that is located at [www.adventure-works.com](http://www.adventure-works.com). The application must load JSON data from [www.fabrikam.com](http://www.fabrikam.com).

You need to choose an approach for loading the data.

What should you do?

- A. Add a crossdomain.xml file to the second server.
- B. Configure Cross-Origin Resource Sharing (CORS) on the servers.
- C. Load the data in a JavaScript timeout callback.
- D. Reference the remote data as an XML resource.

**Correct Answer:** B

**Section:** Volume D

**Explanation**



#### Explanation/Reference:

Explanation:

\* Cross-origin resource sharing (CORS) is a mechanism that allows Javascript on a web page to make XMLHttpRequests to another domain, not the domain the Javascript originated from. Such "cross-domain" requests would otherwise be forbidden by web browsers, per the same origin security policy. CORS defines a way in which the browser and the server can interact to determine whether or not to allow the cross-origin request. It is more powerful than only allowing same-origin requests, but it is more secure than simply allowing all such cross-origin requests.

\* You must use Cross Origin Resource Sharing

It's not as complicated as it sounds...simply set your request headers appropriately...in Python it would look like:

```
self.response.headers.add_header('Access-Control-Allow-Origin', '*');
self.response.headers.add_header('Access-Control-Allow-Methods', 'GET, POST, OPTIONS'); self.response.headers.add_header('Access-Control-Allow-Headers', 'X-Requested-With'); self.response.headers.add_header('Access-Control-Max-Age', '86400');
```

### QUESTION 102

You are creating a blog site by using HTML5 and JavaScript. An inline frame enables users to post comments. It is possible for users to inject malicious scripts into their comments.

You need to minimize the ability for malicious scripts to execute on the site.

- A. <iframe sandbox src="frame1.htmlInX/iframe>
- B. <iframe seamless="allowscripts" src="frame1.html"></iframe>
- C. <iframe seamless src="frame1.html"></iframe>
- D. <iframe sandbox="allowscripts" src="frame1.html" x/iframe>

**Correct Answer:** A

**Section:** Volume D

#### Explanation

##### Explanation/Reference:

Explanation:

The sandbox attribute enables an extra set of restrictions for the content in the iframe.

Syntax

```
<iframe sandbox="value">
```

Attribute Values no value:

Applies all restrictions etc.

No attribute value: allowscripts (not D)

Reference: HTML <iframe> sandbox Attribute



#### QUESTION 103

You develop an HTML5 application that interacts with a REST service. The REST service accepts JSON data. A JavaScript object named form Data contains data that is sent to the REST service.

You need to convert the JavaScript object named formData into JSON.

Which code segment should you use?

- A. jQuery.ajax.valueOf(formData);
- B. window.evai(formData);
- C. JSON.stringify (formData);
- D. formData.toString();

**Correct Answer:** C

**Section:** Volume D

#### Explanation

##### Explanation/Reference:

Explanation:

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

JSON.stringify converts a JavaScript value to a JavaScript Object Notation (JSON) string.

Reference: JSON.stringify Function (JavaScript)

**QUESTION 104**

You are developing an HTML page that includes the following code.

```
<h1 id="header">A Static Page</h1>
```

You need to modify the content of the H1 element dynamically by using JavaScript.

Which code segment should you use?

- A. 

```
var myHeader = document.getElementsByTagName("header");  
myHeader = "A Dynamic Page";
```
- B. 

```
var myHeader = document.getElementById("header");  
myHeader = "A Dynamic Page";
```
- C. 

```
var myHeader = document.getElementsByTagName("header");  
myHeader.innerHTML = "A Dynamic Page";
```
- D. 

```
var myHeader = document.getElementById("header");  
myHeader.innerHTML = "A Dynamic Page";
```

A. Option A

B. Option B

- C. Option C
- D. Option D

**Correct Answer:** D

**Section:** Volume D

#### Explanation

#### Explanation/Reference:

Explanation:

innerHTML

The innerHTML property sets or returns the HTML content (inner HTML) of an element.

#### Example

Change the HTML content of a <h1> element with id="header":

```
document.getElementById("header").innerHTML = "A dynamic page";
```

Reference: [HTML DOM innerHTML Property](#)

#### QUESTION 105

You are developing a web page that will contain an animated logo. The web page currently has a logo image on a canvas object. You reference the context of the canvas object by using a variable named context.

You need to spin the logo image on the canvas.

Which method should you use?

- A. context.rotate()
- B. context.spin()
- C. context.translatePosition()
- D. context.setTransform()

**Correct Answer:** A

**Section:** Volume D

#### Explanation

#### Explanation/Reference:

Explanation:

The rotate() method rotates the current drawing.

#### Example

Rotate the rectangle 20 degrees:

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

JavaScript:

```
var c=document.getElementById("myCanvas");
var ctx=c.getContext("2d");
ctx.rotate(20*Math.PI/180);
ctx.fillRect(50,20,100,50);
```

Incorrect Answers:

B: there is no canvas.spin method.

Reference: HTML canvas rotate() Method

#### QUESTION 106

You are developing a web page that includes the following HTML.

```
<span id="myTextSpan" class="myStyle">Hello, World!</Span>
```

You need to use inline CSS styling to format the text with Arial font.

Which code segment should you use?

- A. 

```
<style>
    .myStyle
    {
        font-style: Arial;
    }
</style>
```
- B. 

```
<span id="myTextSpan" class="myStyle" style="font-family: Arial">Hello, World!</span>
```
- C. 

```
<span id="myTextSpan" class="myStyle" style="font-style: Arial">Hello, World!</span>
```
- D. 

```
<style>
    .myStyle
    {
        font-family: Arial;
    }
</style>
```

A. Option A

B. Option B

C. Option C

D. Option D

**Correct Answer:** B

**Section:** Volume D

#### **Explanation**

#### **Explanation/Reference:**

Explanation:

The font-family property specifies the font for an element.

Incorrect Answers:

A, D: This is not inline CSS.

C: With font style we define style only:

Syntax: font-style: normal|italic|oblique|initial|inherit;

Reference: CSS font-family Property

#### **QUESTION 107**

You create the following JavaScript code:



```
var myApplication = myApplication || {};
myApplication.Vehicle = function (displayControl, color, seatCount, tranType, wheelCount) {
    this.Color = color;
    this.NumberOfSeats = seatCount;
    this.TransmissionType = tranType;
    this.NumberOfWheels = wheelCount;
    this.showVehicle = document.getElementById(displayControl);
};
myApplication.Vehicle.prototype = {
    Describe: function () {
        var valuesToDisplay = '';
        for (var property in this) {
            if (typeof (this[property]) === 'string')
            {
                valuesToDisplay += 'Vehicle ' + property + ' is ' + this[property] + '<br />';
            }
            else if(typeof (this[property]) === 'number')
            {
                if (this[property] < 4)
                {
                    valuesToDisplay += 'Stay safe!' + '<br />';
                }
                else if(this[property] >= 10)
                {
                    valuesToDisplay += 'Big machine!' + '<br />';
                }
            }
        }
        this.showVehicle.innerHTML = valuesToDisplay;
    }
};
```

You have the following requirements:

- You must invoke a function that displays the vehicle information within the following HTML element: <div id="display"></div>
- The output of the function must appear on the webpage as follows: Vehicle Color is silver Stay safe!

Vehicle TransmissionType is manual  
Big machine!

You need to invoke the JavaScript function to display the required output in the HTML element.

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

- A. `var mySportsCar = new myApplication.Vehicle('display', 'manual', 4, 'silver', 4);  
mySportsCar.Describe();`
  - B. `var myDumpTruck = new myApplication.Vehicle('display', 'silver', 10, 'manual', 2);  
myDumpTruck.Describe();`
  - C. `var myBigRig = new myApplication.Vehicle('display', 'silver', 2, 'manual', 16);  
myBigRig.Describe();`
  - D. `var myMotorcycle = new myApplication.Vehicle('display', 'blue', 2, 'manual', 2);  
myMotorcycle.Describe();`
  - E. `var myMotorhome = new myApplication.Vehicle('display', 'silver', 3, 'manual', 10);  
myMotorhome.Describe();`
- A. Option A  
B. Option B  
C. Option C  
D. Option D  
E. Option E

**Correct Answer:** CE

**Section:** Volume D

**Explanation**

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

**Explanation/Reference:**

Explanation:

The second argument should be 'silver'.

The third argument should be a number less than 4.

**QUESTION 108**

You develop an HTML5 webpage. You have the following JavaScript code:

```
01 $(document).ready(function () {  
02  
03     e.preventDefault();  
04     ...  
05 });  
06 });
```

You need to handle the click event when a user clicks the showDialog button.

Which code segment should you insert at line 02?.



<http://vceplus.com/>

- A. \$(document).trigger("click", "#showDialog", function (e) {
- B. \$(document).on ("#showDialog", "click", function (e) {
- C. \$(document).toggle("click", "#showDialog", function (e) {
- D. \$(document).on("click", "#showDialog", function (e) {

**Correct Answer:** D

**Section:** Volume D

**Explanation****Explanation/Reference:**

Explanation:

Syntax: .on( events [, selector] [, data], handler )

<http://vceplus.com/> VCEplus Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

\* Example:

```
$(function() {  
    $(document).on('click', '.get-widgets', function (e) {
```

Reference: jQuery .on()

### QUESTION 109

You are developing an application that processes order information. Thousands of orders are processed daily. The application includes the following code segment.

(Line numbers are included for reference only.)

```
01 var counter = 0;  
02 while (process()) {  
03     counter++;  
04  
05     updateStatus();  
06 }
```

The application must:

- Display the number of orders processed and the number of orders remaining
- Update the display for every 25th record processed

You need to develop the application to meet these requirements.

Which line of code should you insert at line 04?

- A. if (!!(counter % 25))
- B. if (counter == 25)
- C. if (counter >> 25 == 0)
- D. if (counter << 25 == 0)

**Correct Answer:** A

**Section:** Volume D

### Explanation

#### Explanation/Reference:

Explanation:

%

(Modulus) Computes the integer remainder of dividing 2 numbers.

Incorrect:

>> (Sign-propagating right shift) Shifts the first operand in binary representation the number of bits to the right specified in the second operand, discarding bits shifted off.

<< (Left shift) Shifts its first operand in binary representation the number of bits to the left specified in the second operand, shifting in zeros from the right.

Reference: JavaScript Operators

### QUESTION 110

You develop an HTML5 webpage. You have the following HTML markup:

```
<input type="text" id="username" />
```

You need to prevent users from entering specific characters into the username field.

What should you do?

- A. Using the keyup event, add an anonymous function that returns true when a specific character keycode value is determined.
- B. Using the change event, add an anonymous function that returns true when a specific character keycode value is determined.
- C. Using the keydown event, add an anonymous function that returns false when a specific character keycode value is determined.
- D. Using the change event, add an anonymous function that returns false when a specific character keycode value is determined.

**Correct Answer: B**

**Section: Volume D**



### Explanation

#### Explanation/Reference:

Explanation:

The change event is fired for <input>, <select>, and <textarea> elements when a change to the element's value is committed by the user.

Use the change event and an anonymous function to detect illegal specific characters in the input.

### QUESTION 111

You troubleshoot a webpage that contains the following HTML markup: (Line numbers are included for reference only.)

```
01 <div onclick="someEvent()">
02   <input type="radio" name="sizeRadio" id="sizeRadioSml" value="1" />
    <label for="sizeRadioSml">Small</label>
03   <input type="radio" name="sizeRadio" id="sizeRadioMed" value="2" />
    <label for="sizeRadioMed">Medium</label>
04   <input type="radio" name="sizeRadio" id="sizeRadioLrg" value="3" />
    <label for="sizeRadioLrg">Large</label>
05 </div>
```

The webpage also contains the following JavaScript function named someEvent() that is declared in the HEAD section of the HTML:

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

```
Function someEvent() {  
    Alert('someEvent fired!');  
}
```

The JavaScript function named someEvent() must run only when the user clicks the DIV element, not the INPUT elements.

You need to modify the webpage to invoke the JavaScript function named someEvent().

What should you do? (Each correct answer presents a complete solution. Choose two.)



- A. Modify all INPUT elements by using the following HTML attribute:

```
onclick="stopPropagation(event)"
```

Declare the JavaScript function named **stopPropagation()** in the HEAD section of the HTML as follows:

```
function stopPropagation(event) {  
    event = event || window.event;  
    if (event.stopPropagation) {  
        event.stopPropagation();  
    } else {  
        event.cancelBubble = true;  
    }  
}
```

- B. Place all INPUT elements within a SPAN element.

- C. Replace the DIV element declaration at line 01 with the following HTML markup:

```
<div onclick="someEvent(this,event)">
```

Modify the JavaScript function named **someEvent()** as follows:

```
function someEvent( el, event ) {  
    var target = event.srcElement || event.target;  
    if( el === target ) {  
        alert('someEvent fired!');  
    }  
}
```

- D. Replace the DIV element declaration at line 01 with the following HTML markup:

```
<div>
```

Modify all INPUT elements by using the following HTML attribute:

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

**Correct Answer:** AB

**Section:** Volume D

#### Explanation

#### Explanation/Reference:

#### QUESTION 112

You develop a webpage by using HTML5.

The user interface of the webpage must show a gray-lined box that contains the label Enter your information:. Inside the box are two labels and two input boxes. The first input box must be labeled Name:. The second input box must be labeled Email:. Below the box is a Submit button. The user interface must look like the following;

Enter your information:

Name:

Email:



You need to create the user interface.

Which markup should you use?

C A. <table border="1">  
    <tr>  
        <td>Enter your information:<br />  
            Name: <input type="text" /><br />  
            Email: <input type="email" /><br />  
        </td>  
    </tr>  
</table>  
<button value="submit">Submit</button>

C B. <fieldset>  
    <legend>Enter your information:</legend>  
    Name: <input type="text" /><br />  
    Email: <input type="email" /><br />  
</fieldset>  
<button value="submit">Submit</button>

C C. <details>  
    <label>Enter your information:</label>  
    Name: <input type="text" /><br />  
    Email: <input type="email" /><br />  
</details>  
<button value="submit">Submit</button>

C D. <section>  
    <label>Enter your information:</label>  
    Name: <input type="text" /><br />  
    Email: <input type="email" /><br />  
</section>  
<button value="submit">Submit</button>

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

**Section: Volume D**  
**Explanation****Explanation/Reference:**

Explanation:

\* The `<fieldset>` tag is used to group related elements in a form.

The `<fieldset>` tag draws a box around the related elements.

The `<legend>` tag defines a caption for the `<fieldset>` element.

Example:

Group related elements in a form:

```
<form>
  <fieldset>
    <legend>Personalia:</legend>
    Name: <input type="text"><br/>
    Email: <input type="text"><br/>
    Date of birth: <input type="text"/>
  </fieldset>
</form>
```

Reference: HTML `<fieldset>` Tag; HTML `<legend>` Tag

**QUESTION 113**

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="input" required="required"/>`
- B. `<input name=email" type="url" required="email"/>`
- C. `<input name="email" class="email"/>`
- D. `<input name="email" type="email"/>`

**Correct Answer: D**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

**Explanation:**

The <input type="email"> is used for input fields that should contain an e-mail address.

Depending on browser support, the e-mail address can be automatically validated when submitted.

Some smartphones recognize the email type, and adds ".com" to the keyboard to match email input.

Reference: HTML Input Types

**QUESTION 114**

You develop an HTML5 webpage. You have the following HTML markup:

```
<label for="personname">Given and Surname:</label>
<input type="text" name="personname" /><br />

<label for="businessname">Business Name:</label>
<input type="text" name="businessname" /><br />

<label for="emailaddress">Email Address:</label>
<input type="text" name="emailaddress" />
```

You need to change the background color for all of the elements whose name attribute ends with the word name.

Which code segment should you add to the webpage?

- A. \$('#name').css ({ 'background-color' : '#E0ECF8' });
- B. \$(input [name |= "name"; ] ) .css (( 'background-color' : '#E0ECF8'));
- C. \$('input[name\$="name"]'). css({'background-color' : '#E0ECF8'});
- D. \$(\*name') .css ({ 'background-color' : '#E0ECF8'}) ;

**Correct Answer: C**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

**QUESTION 115**

You are developing a web application by using HTML5.

- The color of a menu item must change when a user hovers over the item.
- The color of the menu item must change back to its original color after five seconds.

You need to ensure that the animation is applied to all menu items.

Which CSS3 code should you use?



C A. `menuitem:hover {  
 color: yellow;  
 opacity: 100;  
 transition-timing-function:ease-in;  
 . . .  
}`

C B. `menuitem:hover {  
 background-color: yellow;  
 transition-duration:5s;  
 . . .  
}`

C C. `menuitem:hover {  
 color: yellow;  
 transition-property:color;  
 transition-duration:5s;  
 . . .  
}`

C D. `menuitem:hover {  
 color: yellow;  
 transition-duration:5s;  
 . . .  
}`

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

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation:

`transition-property`



The transition-property property specifies the name of the CSS property the transition effect is for (the transition effect will start when the specified CSS property changes).

Tip: A transition effect could typically occur when a user hover over an element.

Note: Always specify the transition-duration property, otherwise the duration is 0, and the transition will have no effect.

### CSS3 transition-property Property

#### QUESTION 116

##### HOTSPOT

You are implementing an HTML page that uses a custom sans-serif font. The CSS statement for the page is as follows.

```
@font-face {  
    font-family: 'special';  
    src: url(/Special.eot) format('embedded-opentype');  
}  
  
body {  
    font-family: 'special';  
}
```



Some users report that text is displayed in the default font for the browser.

You need to modify the CSS statement to ensure that the content is displayed with the custom font.

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

##### Hot Area:

## Work Area

```
@font-face {  
    font-family: 'special';  
    src: url(/Special.eot) format('embedded-opentype');
```

```
font-family: 'special', sans-serif;  
font-family: 'special', inherit;  
font-family: 'special'; font-synthesis: sans-serif;  
font-family: 'special'; font-variant: sans-serif;  
src: local('sans-serif') url(/Special.ttf) format('all');  
src: url(/Special.ttf) format('truetype');
```

```
}
```

```
body {
```

```
font-family: 'special', sans-serif;  
font-family: 'special', inherit;  
font-family: 'special'; font-synthesis: sans-serif;  
font-family: 'special'; font-variant: sans-serif;  
src: local('sans-serif') url(/Special.ttf) format('all');  
src: url(/Special.ttf) format('truetype');
```

Correct Answer:

## Work Area

```
@font-face {  
    font-family: 'special';  
    src: url(/Special.eot) format('embedded-opentype');  
  
    font-family: 'special', sans-serif;  
    font-family: 'special', inherit;  
    font-family: 'special'; font-synthesis: sans-serif;  
    font-family: 'special'; font-variant: sans-serif;  
    src: local('sans-serif') url(/Special.ttf) format('all');  
    src: url(/Special.ttf) format('truetype');  
}
```

```
body {
```

```
} font-family: 'special', sans-serif;  
font-family: 'special', inherit;  
font-family: 'special'; font-synthesis: sans-serif;  
font-family: 'special'; font-variant: sans-serif;  
src: local('sans-serif') url(/Special.ttf) format('all');  
src: url(/Special.ttf) format('truetype');
```

**Section: Volume D**  
**Explanation****Explanation/Reference:**

Explanation:

Using The Font You Want

In the CSS3 @font-face rule you must first define a name for the font (e.g. myFirstFont), and then point to the font file.

To use the font for an HTML element, refer to the name of the font (myFirstFont) through the font-family property:

Example

```
@font-face {  
    font-family: myFirstFont;  
    src: url(sansation_light.woff);
```

```
}
```

```
div {
```

```
    font-family: myFirstFont;
```

```
}
```

Note:

\* CSS3 Web Fonts - The @font-face Rule

Web fonts allow Web designers to use fonts that are not installed on the user's computer.

When you have found/bought the font you wish to use, just include the font file on your web server, and it will be automatically downloaded to the user when needed.

Your "own" fonts are defined within the CSS3 @font-face rule.

\* TrueType Fonts (TTF)

TrueType is a font standard developed in the late 1980s, by Apple and Microsoft. TrueType is the most common font format for both the Mac OS and Microsoft Windows operating systems.

Reference: CSS3 Web Fonts



### QUESTION 117

Your company uses a third-party component that generates HTML for a website. The third-party component creates DIV elements that display a yellow background.

The third-party component uses inline styles in the DIV elements that are inconsistent with your corporate standards. You must override the DIV elements in the style sheet with the corporate styles.

You need to ensure that the website meets corporate standards.

Which style should you use?

C A. `#alldiv`  
{  
    background: yellow;  
    font: 12px/22px Arial;  
}

C B. `div p:only-child`  
{  
    background: yellow;  
    font: 12px/22px Arial;  
}

C C. `div`  
{  
    background: yellow !important;  
    font: 12px/22px Arial !important;  
}

C D. `div`  
{  
    background: yellow;  
    font: 12px/22px Arial;  
}

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

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:** [www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

Explanation:

CSS attempts to create a balance of power between author and user style sheets. By default, rules in an author's style sheet override those in a user's style sheet.

However, for balance, an "important" declaration (the delimiter token "!" and keyword "important" follow the declaration) takes precedence over a normal declaration. Both author and user style sheets may contain "important" declarations, and user "important" rules override author "important" rules. This CSS feature improves accessibility of documents by giving users with special requirements (large fonts, color combinations, etc.) control over presentation.

Reference: Assigning property values, Cascading, and Inheritance, !important rules

**QUESTION 118**

You develop an HTML5 webpage that contains the following HTML markup:

```
<label for='favoriteColor'>Favorite Color(2-10 characters):</label>
<input type='text' id='favoriteColor' />
<input type='button' value='Submit'
      onclick="testLength(document.getElementById('favoriteColor'), 2, 10)" />
```

Users must receive a message after they click the Submit button if the text entered into the favoriteColor text box is fewer than 2 characters or greater than 10 characters.

You need to implement the testLength() function.

Which code segment should you use?



C A. function testLength(element, min, max) {  
    var uInput = element.value;  
    var min = element.value.length;  
    var max = element.value.slice(0, element.value.length);  
    if (uInput.length >= min && uInput.length <= max) {  
        return true;  
    } else {  
        alert("Please enter between " + min + " and " + max + " characters");  
        element.focus();  
        return false;  
    }  
}

C B. function testLength(min, max) {  
    var uInput = this.value;  
    if (uInput.length >= min && uInput.length <= max) {  
        return true;  
    } else {  
        alert("Please enter between " + min + " and " + max + " characters");  
        element.focus();  
        return false;  
    }  
}

C C. function testLength(this) {  
    var uInput = this.value;  
    var min = this.value.length;  
    var max = this.value.slice(0, this.value.length);  
    if (uInput.length >= min && uInput.length <= max) {  
        return true;  
    } else {  
        alert("Please enter between " + min + " and " + max + " characters");  
        element.focus();  
        return false;  
    }  
}

C D. function testLength(element, min, max) {  
    var uInput = element.value;  
    if (uInput.length >= min && uInput.length <= max) {  
        return true;  
    } else {  
        alert("Please enter between " + min + " and " + max + " characters");  
        element.focus();  
        return false;  
    }  
}

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

**Correct Answer:** D

**Section:** Volume D

#### **Explanation**

#### **Explanation/Reference:**

Explanation:

Use three arguments: element, min, max.

Compare element.value with min and max.

#### **QUESTION 119**

You are developing a website that helps users locate theaters in their area from a browser. You created a function named findTheaters () .

The function must:

- Get the current latitude and longitude of the user's device
- Pass the user's location to findTheaters()



The user needs to access the geolocation information from the browser before searching for theaters.

Which code segment should you use?

- A. 

```
function GetTheaters {
    theaters = findTheaters(navigator.geolocation.getCurrentPosition());
    ...
}
```
- B. 

```
navigator.geolocation.getBrowserPosition(hasPosition);

function hasPosition(position) {
    theaters = findTheaters(position.coords.latitude, position.coords.longitude);
    ...
}
```
- C. 

```
navigator.geolocation.getCurrentPosition(hasPosition, noPosition);

function hasPosition(position) {
    theaters=findTheaters(position.coords.latitude, position.coords.longitude);
    ...
}

function noPosition() {
    ...
}
```
- D. 

```
function GetTheaters {
    theaters = findTheaters(navigator.geolocation.getLatitude(), navigator.geolocation.getLongitude());
    ...
}
```

A. Option A B.

Option B

C. Option C

D. Option D

**Correct Answer:** C

## Section: Volume D

### Explanation

#### Explanation/Reference:

Explanation:

- \* The getCurrentPosition method retrieves the current geographic location of the device. The location is expressed as a set of geographic coordinates together with information about heading and speed. The location information is returned in a Position object.

syntax of this method: getCurrentPosition(showLocation,  
ErrorHandler, options); where

showLocation : This specifies the callback method that retrieves the location information. This method is called asynchronously with an object corresponding to the Position object which stores the returned location information.

ErrorHandler : This optional parameter specifies the callback method that is invoked when an error occurs in processing the asynchronous call. This method is called with the PositionError object that stores the returned error information.

\* e example below is a simple Geolocation example returning the latitude and longitude of the user's position:

#### Example

```
<script>
var x = document.getElementById("demo");
function getLocation() {    if
(navigator.geolocation) {
    navigator.geolocation.getCurrentPosition(showPosition);
} else {
    x.innerHTML = "Geolocation is not supported by this browser.";
}
}
function showPosition(position) {
    x.innerHTML = "Latitude: " + position.coords.latitude +
"<br>Longitude: " + position.coords.longitude;
}
</script>
```



Example explained:

Check if Geolocation is supported

If supported, run the getCurrentPosition() method. If not, display a message to the user

If the getCurrentPosition() method is successful, it returns a coordinates object to the function specified in the parameter ( showPosition ) The showPosition() function gets the displays the Latitude and Longitude The example above is a very basic Geolocation script, with no error handling.

Reference: HTML5 Geolocation; Geolocation getCurrentPosition() API

### QUESTION 120

You are developing an HTML5 web application. The application loads data from a web service by using AJAX. The application displays the data by calling the displayData function. The data is loaded by using the following code.

```
var ajax = $ajax({  
    url: dataUri,  
});
```

You need to ensure that the data is displayed when it is successfully retrieved from the web service.

Which code segment should you use?

- A. displayData.ajax.data;
- B. ajax.done = function (data) {  
 displayData(dataOperation);  
};
- C. ajax.always = function (data) {  
 displayData(dataOperation);  
};
- D. displayData.ajax.val();

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

**Correct Answer:** B

**Section:** Volume D

### Explanation

#### Explanation/Reference:

Explanation:

The deferred.done() method accepts one or more arguments, all of which can be either a single function or an array of functions. When the Deferred is resolved, the doneCallbacks are called. Callbacks are executed in the order they were added. Since deferred.done() returns the deferred object, other methods of the deferred object can be chained to this one, including additional .done() methods.

\$.ajax

Reference: JQuery, deferred.done()

### QUESTION 121

You are developing an HTML5 page named main.html. The JavaScript code for the main page is located in a file named myApp.js.

You need to create a web worker and instantiate it from main.html.

Where should you place the web worker code?

- A. In the myApp.js file
- B. In the main.html file
- C. In a separate .js (JavaScript) file
- D. In a separate executable file

**Correct Answer:** C

**Section:** Volume D

### Explanation

#### Explanation/Reference:

Explanation:

Spawning a dedicated worker

Creating a new worker is simple. All you need to do is call the Worker() constructor, specifying the URI of a script to execute in the worker thread (main.js):

```
var myWorker = new Worker("worker.js");
```

Reference: Using Web Workers

### QUESTION 122

You are developing a JavaScript library.

You have the following requirements:

- Custom exceptions must include an error message and custom error number.
- These exceptions must be thrown when data validation errors occur.
- Developers must call the library to easily catch the exception and identify the problem.

You develop the following code. (Line numbers are included for reference only.)

```
01 function ValidationException(number, message) {  
02     this.message = message;  
03     this.name = "myLibrary Exception";  
04     this.number = number;  
05 }  
06  
07 function myFunction(dayOfWeek) {  
08     if (dayOfWeek > 7) {  
09         }  
11 }
```

You need to complete the code to meet the requirements.

Which line of code should you insert at line 09?

- A. throw new ValidationException.Exception (123, "Day of week must be less than 7");
- B. return new ValidationException(123, "Day of week must be less than 7");
- C. throw ValidationException(123, "Day of week must be less than 7");
- D. catch ValidationException(123, "Day of week: must be less than 7");

**Correct Answer:** A

**Section:** Volume D

#### Explanation

#### Explanation/Reference:

Explanation:

Example:

```
if (value < -100 || value > 100)  
{
```

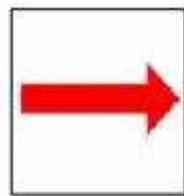
```
    throw new ValidationException(String.Format("Value is {0} than  
{1}.", (value > 100 ? "greater" : "less"), value)); }
```

#### QUESTION 123

You are developing an application that retrieves a stock rate from an external web service. A web page displays a simple rotating animation to indicate whether the stock rate is increased or decreased.

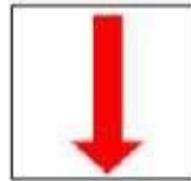
The default image, as shown in the following graphic, indicates unchanged or neutral.

Stock Price



The arrow must point down if the stock rate is decreased, as shown in the following graphic.

Stock Price



You need to ensure that the arrow points down when the stock rate decreases.

Which CSS style should you apply?



- A. 

```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:move(90deg);
  }
</style>
```
- B. 

```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:rotate(-90deg);
  }
</style>
```
- C. 

```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:move(-90deg);
  }
</style>
```
- D. 

```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:rotate(90deg);
  }
</style>
```



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

Correct Answer: D

Section: Volume D

### Explanation

#### Explanation/Reference:

Explanation:

transform:rotate  
rotate(angle)

Defines a 2D rotation, the angle is specified in the parameter

Syntax: object.style.transform="rotate(7deg)"

Reference: CSS3 transform Property

### QUESTION 124

You are troubleshooting a web page that includes the following code segment.

```
var x = 0;  
function fun() {  
    var x = 1;  
    if (x) {  
        x = 2;  
    }  
}  
fun();  
alert(x);
```



You need to evaluate the value of the variable x.

What will be displayed in the user interface?



<http://vceplus.com/>

A. 0 B.

1

- C. 2
- D. An error

**Correct Answer:** A

**Section:** Volume D

### Explanation

#### Explanation/Reference:

Explanation:

\* Alert(x) is within the scope of the outermost assignment, x=0.

\* Local variables have local scope: They can only be accessed within the function.

Example

```
// code here can not use carName
function myFunction() {    var
carName = "Volvo";    // code
here can use carName
}
```

\* A variable declared outside a function, becomes GLOBAL.

A global variable has global scope: All scripts and functions on a web page can access it.

Example

```
var carName = " Volvo"; // code
here can use carName function
myFunction() {    // code here
can usecarName
}
```

\* The alert() method displays an alert box with a specified message and an OK button.

An alert box is often used if you want to make sure information comes through to the user.

Reference: JavaScript Scope

### QUESTION 125

You develop an HTML5 chat application.

You need to provide real-time updates to the messages that users post in the chat application.

What should you do?

- A. Use get o to obtain data updates.
- B. Use a RESTful web service.

- C. Use WebSockets.
- D. Use ajaxo to obtain data updates.

**Correct Answer:** C

**Section:** Volume D

### Explanation

#### Explanation/Reference:

Explanation:

Web Sockets is a next-generation bidirectional communication technology for web applications which operates over a single socket and is exposed via a JavaScript interface in HTML 5 compliant browsers.

Once you get a Web Socket connection with the web server, you can send data from browser to server by calling a send() method, and receive data from server to browser by an on message event handler.

Reference: HTML5 - WebSockets Tutorial

### QUESTION 126

You are creating a rotating image of a company logo.



The logo must spin on a horizontal axis and on a vertical axis.

You need to use the least amount of development effort to meet the requirement.

What should you do?

- A. Create an Image Spinner object, load the image into the spinner, and set the horizontal and vertical rotation properties.
- B. Create a Canvas Globe transform and set the image as the globe object. Set the horizontal and vertical rotation properties.
- C. Create a single Canvas 3D transform and load the image into it. Set the rotation properties.
- D. Create a Canvas 2D transform and set the image to rotate horizontally and vertically.

**Correct Answer:** C

**Section:** Volume D

### Explanation

#### Explanation/Reference:

Explanation:

CSS3 allows you to format your elements using 3D transforms.

There are two 3D transform methods:

rotateX() - With the rotateX() method, the element rotates around its X-axis at a given degree.

rotateY() - With the rotateY() method, the element rotates around its Y-axis at a given degree.

Reference: CSS3 3D Transforms

### QUESTION 127

You are developing an HTML5 web application that provides a discussion forum for users. When a user registers to access the application, the user enters an email address.

Users can enter data that can result in cross-site scripting (XSS) attacks.

You need to ensure that email input is as secure as possible.

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

- A. Remove all nonalphanumeric characters before submitting data.
- B. Use the email tag in forms where the email address is entered.
- C. Display all email addresses inside of an HTML5 ADDRESS element.
- D. Use jQuery validation with a regular expression to ensure that email addresses are valid.
- E. Ensure that all form data is encrypted when it is submitted.

**Correct Answer:** BD

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation:

B: The <input type="email"> is used for input fields that should contain an e-mail address.

Depending on browser support, the e-mail address can be automatically validated when submitted.

Some smartphones recognize the email type, and adds ".com" to the keyboard to match email input.

D: JQuery can be used to validate email addresses.

Reference: HTML Input Types; Email Validation Using jQuery Codes

### QUESTION 128

You have the following code. (Line numbers are included for reference only.)

```
01 function testNumber() {  
02     testTooSmall(1);  
03 }  
04 function testTooSmall(n) {  
05     if (n < 2)  
06         throw "Oh no! 'n' is too small!"  
07     return true;  
08 }  
09 try {  
10     testNumber();  
11 }  
12 catch (e) {  
13     alert(e.stack);  
14 }
```

You execute the code and you receive an alert that displays the following message: “Undefined”.

You need to ensure that the alert displays as shown:



What should you do?

- A. Replace line 13 with the following code:`alert(e.message);`
- B. Replace line 06 with the following code:`throw new eval("Oh no! 'n' is too small!");`
- C. Replace line 13 with the following code:`alert(e);`
- D. Replace line 06 with the following code.`throw new Error("Oh no! 'n' is too small!");`

**Section: Volume D****Explanation****Explanation/Reference:**

Explanation:

<http://www.javascriptkit.com/javatutors/trycatch2.shtml>

**QUESTION 129**

You have two arrays of strings, customers and employees, and you want to combine them to create a contacts array.

Which method would be most suitable for this task?

- A. Concat
- B. Join
- C. Push
- D. Splice

**Correct Answer:** A

**Section: Volume D****Explanation****Explanation/Reference:**

Explanation:

References: [https://www.w3schools.com/jsref/jsref\\_concat\\_array.asp](https://www.w3schools.com/jsref/jsref_concat_array.asp)

**QUESTION 130**

You need to parse an XML formatted string.

Which object should you use?

- A. Map
- B. DataView
- C. DOMParser
- D. JSON

**Correct Answer:** C

**Section: Volume D****Explanation**

**Explanation/Reference:****QUESTION 131**

Which CSS3 code segment styles the text color of EM elements to be red and semi-transparent?

- A. em { color: #ff00007f; }
- B. em { color: rgba (255,0,0,0.5); }
- C. em { color: rgba (255,0,0,127); }
- D. em { color: rgba (100%,0%,0%, 50%); }

**Correct Answer:** B

**Section:** Volume D

**Explanation****Explanation/Reference:**

References:

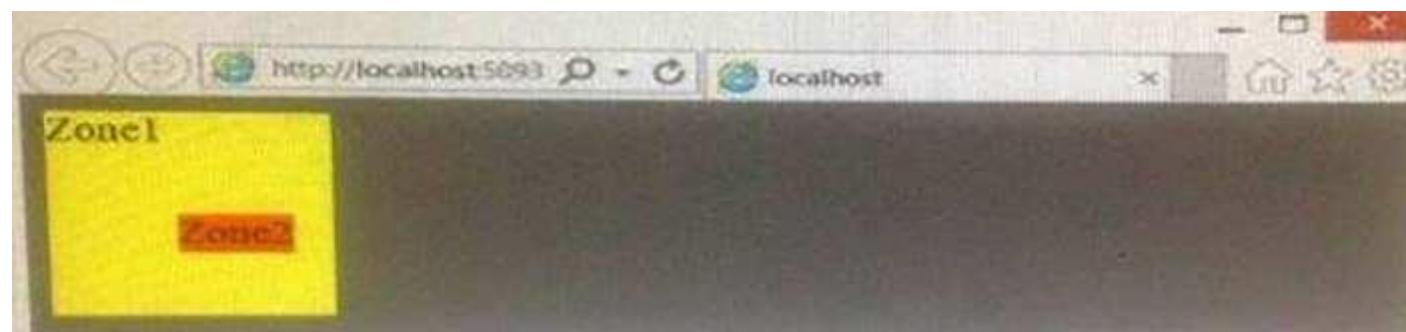
[http://www.w3schools.com/cssref/css\\_colors\\_legal.asp](http://www.w3schools.com/cssref/css_colors_legal.asp)

**QUESTION 132**

You have the following code.

```
<div style=“background: yellow; height: 100px; width:100px”> Zone1  
<span style=“background: red; position: Target 1; margin-top: 50px;”> Zone2 </span>  
</div>
```

You need to ensure that the screen appears as shown in the following exhibit:



Which position should you use for Target 1?

- A. static
- B. fixed
- C. initial
- D. inherit

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

References:

[http://www.w3schools.com/cssref/pr\\_class\\_position.asp](http://www.w3schools.com/cssref/pr_class_position.asp)

### QUESTION 133

Which CSS3 code fragment uses a pseudo-element?

- A. p: first-letter {font-weight: bold;}
- B. div>p {font-weight: bold;}
- C. p. first-letter {font-weight: bold;}
- D. div+p {font-weight: bold;}



**Correct Answer:** A

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

References:

<http://www.html5code.nl/css3-tutorials/css3-tutorial-css3-selectors/>

### QUESTION 134

You are styling the following DIV tag on a page by using CSS3.

<div class= “Box”/>

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.)

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

A. .Box {  
background: rgb(255,0,0);  
opacity : 0.5;  
}

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

C. .Box {  
background : rgb(255,0,0);  
background-visibility : hidden;  
}

D. .Box {  
background rgba(255,0,0,.5);  
}

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

**Correct Answer:** AD

**Section:** Volume D

#### Explanation

#### Explanation/Reference:

#### QUESTION 135

You have the following HTML markup.

```
<input name=“object1x”>  
    <input name=“object1y”>  
    <input name=“object2x”>
```



For all of the fields that have names ending with the letter x, you need to set the value to value1.

Which code line should you use?

- A. \$(“- B. \$(“#- C. \$(“- D. \$(“#

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

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 136**

Which CSS3 code fragment will style only the external links in an HTML document?

- A. a: visited { font-weight: bold; }
- B. a [href\$= "http://"] { font-weight : bold; }
- C. a {font-weight: bold; }
- D. a [href^= "http://"] { font-weight : bold; }

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**



**QUESTION 137**

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. tr : first-line, tr :last-child
- B. tr [line |=0, 1, 3]
- C. tr: nth-child (0) : in-range, tr: nth-child (3) : in-range
- D. tr: nth-child(3n+1) {background-color : blue;}

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 138**

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 to the paragraph.

Which line of code should you use?

- A. document.getElementById("test").style.top = "5px";
- B. document.getElementById("test").style.border = "0";
- C. document.getElementById("test").style.color = "red";
- D. document.getElementById ("test").style.position = "absolute";



**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 139**

You are developing an application in HTML5.

You have the following code.

```
function NewOrder (orderId, orderDate) {  
    this.orderId = orderId;  
    this.orderDate = orderDate;  
}
```

You need to add an additional property to the function definition.

Which line of code should you use?

- A. NewOrder ["newProperty"] = "newProperty"
- B. NewOrder. prototype. newProperty = "newProperty"
- C. this.NewOrder. newProperty = "newProperty"
- D. NewOrder. newProperty = "newProperty"

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

References:

[http://www.w3schools.com/js/js\\_object\\_prototypes.asp](http://www.w3schools.com/js/js_object_prototypes.asp)

#### QUESTION 140

You are developing an application that consumes an external web service. The web service returns the latest stock rate. The application has two methods:

- The getResults() method makes an AJAX web service request.
- The ShowRate() method displays the stock rate from the web service response.

The application has two JavaScript variables named newStockRate and stockRate to store the latest and previous stock rates, respectively.

Users must be able to compare the old stock rate with the new stock rate.

You need to ensure that newStockRate and stockRate retain their values for comparison.

Which code segment should you use?

A. var newStockRate;

```
function getResults() {
var stockRate;

$.ajax ( {
    async: true,
    cache: true,
    type: 'POST',
    url: 'StockRates.asmx/GetRate',
    data: {'StockName' : stockName },
    datatype: 'json',
    success: function (result) {
        newStockrate = result;
    }, error: function (xhr, ajaxOptions, thrownError) {alert(thrownError) }
} );
ShowRate(newStockrate) :
}

function ShowRate(pStockRate) {
    alert(pStockrate + " " + stockRate);
}
```



```
B. function getResults () {  
    var stockRate;  
  
    var newStockRate;  
  
    $.ajax ( {  
        async: true,  
        cache: true,  
        type: 'POST',  
        url: 'StockRates.asmx/GetRate',  
        data: { 'StockName' : stockName },  
        datatype: 'json',  
        success: function (result) {  
            stockrate = result;  
        }, error: function (xhr, ajaxOptions, thrownError) {alert(thrownError) }  
    } );  
    ShowRate(pStockRate) :  
}  
function ShowRate(pStockRate) {  
    alert(pStockrate + " " + stockRate);  
}
```



```
C. var newStockRate;  
    function getResults () {  
        var StockRate;  
  
        $.ajax ( {  
            async: true,  
            cache: true,  
            type: 'POST',  
            url: 'StockRates.asmx/GetRate',  
            data: {'StockName' : stockName },  
            datatype: 'json',  
            success: function (result) {  
                stockrate = result;  
            }. error: function (xhr, ajaxOptions, thrownError) {alert(thrownError) }  
        } );  
        ShowRate(newsStockRate);  
    }  
    function ShowRate(pStockRate) {  
        alert(pStockrate + " " + stockRate);  
    }  
}
```

```
D. var StockRate;  
function getResults () {  
var newStockRate;  
  
$.ajax ( {  
    async: true,  
    cache: true,  
    type: 'POST',  
    url: 'StockRates.asmx/GetRate',  
    data: { 'StockName' : stockName },  
    datatype: 'json',  
    success: function (result) {  
        stockrate = result;  
    }, error: function (xhr, ajaxOptions, thrownError) {alert(thrownError) }  
} );  
ShowRate(newsStockRate);  
stockRate = newStockRate;  
  
}  
function ShowRate(pStockRate) {  
    alert(pStockrate + " " + stockRate);}
```

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

**Correct Answer:** C

**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

**QUESTION 141**

You are developing a website that helps users locate restaurants in their area from a browser. You created a function named `findRestaurants()`.

The function must:

- Get the current latitude and longitude of the user's device
- Pass the user's location to `findRestaurants()`

You must ensure that the application accesses the geolocation information from the device before searching for restaurants.

Which code segment should you use?



A. navigator.geolocation.getCurrentPosition (GetRestaurants);

```
function GetRestaurants {  
    restaurants = findRestaurants (navigator.geolocation.getCurrentPosition());  
    ...  
}
```

B. navigator.geolocation.getCurrentPosition (hasPosition, noPosition);

```
function hasPosition (position) {  
    restaurants = findRestaurants (position.coords.latitude, position.coords.longitude);  
    ...  
}  
function noPosition() {  
    ...  
}
```

C. navigator.geolocation.getCurrentPosition (GetRestaurants);

```
function GetRestaurants {  
    restaurants = findRestaurants (navigator.geolocation.getLatitude (),  
        navigator.geolocation.getLongitude () );  
    ...  
}
```

D. navigator.geolocation.getBrowserPosition(hasPosition);

```
function hasPosistion (position) {  
    restaurants = findRestaurants (position.coords.latitude, position.coords.longitude);  
    ...  
}
```

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

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

References: <https://developer.mozilla.org/en-US/docs/Web/API/Geolocation/getCurrentPosition>



#### **QUESTION 142**

DRAG DROP

You develop the following code:

```
var isBig = function (nb) {  
    if (nb>10)  
        return true;  
    else  
        return false;  
}  
  
displayAlertIfBigNumber = function (aNumber)  
{  
    switch (Target 1) {  
        case Target 2:  
            alert ("aNumber is big")  
            Target 3;  
            Target 4;  
            alert ("aNumber is not big");  
            break  
    }  
}
```



You need to complete the code to meet the following requirements:

- Display “aNumber is big” if aNumber is more than 10.
- Display “aNumber is not big” if aNumber is equal to or less than 10.

How should you compete the code? To answer, drag the appropriate code elements to the correct targets in the answer area. Each code element 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.

**Select and Place:**

**Code elements**

aNumber

break

default

isBig(aNumber)

true

**Answer Area****Target 1:****Target 2:****Target 3:****Target 4:****Correct Answer:**

**Code elements**`aNumber`**Answer Area****Target 1:**`isBig(aNumber)`**Target 2:**`true`**Target 3:**`break`**Target 4:**`default`**Section: Volume D****Explanation****Explanation/Reference:****QUESTION 143**

You need to write a self-executing anonymous function in JavaScript.

Which code snippet should you include in the function?

A. ( function () {

...

});

B. (function anon() {

...

) () ;

C. function anon() {

...

};

D. (function () {

...

) () ;

A. Option A

B. Option B

C. Option C

D. Option D

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

References:

<http://esbueno.noahstokes.com/post/77292606977/self-executing-anonymous-functions-or-how-to-write>

You are building a multiplayer online game that will be deployed to an application server named Server1. Clients will have a low-latency, persistent connection to Server1.

You need to identify a solution for the game. The solution must meet the following requirements:

- Allows clients to accept low-latency push events from Server1
- Allows clients to receive on message events from Server1

What should you use to develop the solution?



<http://vceplus.com/>



- A. Ajax
- B. HTTP server push
- C. WebSockets
- D. REST

**Correct Answer: C**

**Section: Volume D**

#### **Explanation**

#### **Explanation/Reference:**

Explanation:

<https://www.html5rocks.com/en/tutorials/websockets/basics/>

#### **QUESTION 145**

You have the following code:

```
var objStr = "[1, 2, 3, 4]";
```

You need to convert objStr into an array.

Which line of code should you use?

- A. var jsObject = Array.bind(objStr);
- B. var jsObject = Array.valueOf(objStr);
- C. var jsObject = JSON.parse(objStr);
- D. var jsObject = \$.makeArray(objStr);

**Correct Answer:** C

**Section:** Volume D

#### Explanation

#### Explanation/Reference:

Explanation:

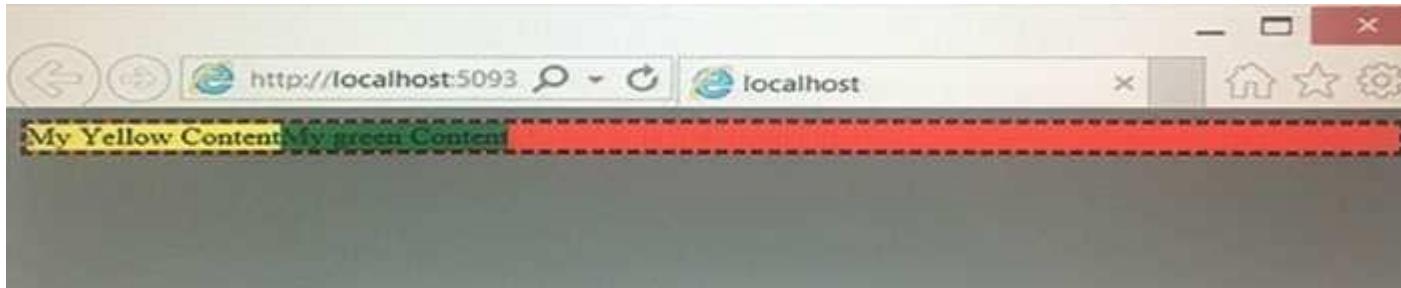
[https://www.w3schools.com/js/js\\_json\\_parse.asp](https://www.w3schools.com/js/js_json_parse.asp)

#### QUESTION 146

You have the following code:

```
<body>
<div id="red" style="background-color:red; border:dashed;">
  <div id="yellow" style="background-color:yellow;">My Yellow Content</div>
  <div id="green" style="background-color:green;">My green Content</div>
</div>
</body>
```

You need to ensure that the content appears as shown in the following exhibit:



Which display attribute should you use for the red div?

- A. grid
- B. inline
- C. block
- D. flex

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation:

[https://www.w3schools.com/cssref/pr\\_class\\_display.asp](https://www.w3schools.com/cssref/pr_class_display.asp)

**QUESTION 147**

Which CSS3 code fragment styles an H2 element only if it is a direct child of a DIV element?

- A. h2 > div {background-color: #900;}
- B. div, h2 {background-color: #900;}
- C. div {background-color: #900;}h2 {background-color: #900;}
- D. div > h2 {background-color: #900;}

**Correct Answer:** D

**Section:** Volume D

**Explanation**



**Explanation/Reference:**

Explanation:

<https://www.w3.org/TR/CSS21/selector.html%23id-selectors>

**QUESTION 148**

You have a web page that contains the following markup.

```
<link rel="stylesheet" href="css1.css" />
```

You need to ensure that css1.css is used only when the current browser width is less than 800px.

Which markup should you add to the web page?

- A. @media="(max-width: 800px)"
- B. @max-width="800px"
- C. media="(max-width: 800px)"
- D. max-width="800px"

**Correct Answer:** A [www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

**Section: Volume D****Explanation****Explanation/Reference:****QUESTION 149**

You are developing a web application in HTML.

You have the following HTML code.

```
<div id="footer"></div>
```

You need to ensure that the div footer contains the text "All rights reserved".

Which line of code should you use?

- A. document("footer") = "All rights reserved";
- B. document("footer").innerHTML = "All rights reserved";
- C. \$(".footer").value = "All rights reserved";
- D. \$("#footer").html("All rights reserved");

**Correct Answer: B**

**Section: Volume D****Explanation****Explanation/Reference:**

Explanation:

[https://www.codecademy.com/en/forum\\_questions/557ea03cd3292f72d10006bf](https://www.codecademy.com/en/forum_questions/557ea03cd3292f72d10006bf)

**QUESTION 150**

You are creating a custom object as described by the following code. Line numbers are included for reference only.

```
01  function square(side) {  
02      this.side = side;  
03      this.perimeter = perimeter;  
04  }  
05
```

You need to implement the perimeter method.

Which code segment should you insert at line 05?

- A. function perimeter () {return 4 \* side;}
- B. function perimeter () {return 4 \* this.side;}
- C. function perimeter () {return 4 \* me.side;}
- D. function perimeter (obj) {return 4 \* obj.side;}

**Correct Answer:** B

**Section:** Volume D

#### Explanation

#### Explanation/Reference:

Explanation:

<http://creative-coding.decontextualize.com/objects-with-methods/>

#### QUESTION 151

You are creating a web page that contains a canvas with text.



The page contains the following JavaScript code. Line numbers are included for reference only.

```
01  var canvas = document.getElementById('myCanvas');  
02
```

The text on the canvas must rotate 90 degrees when a user clicks a button on the page.

You need to ensure that the text rotates when the user clicks the button.

Which line of code should you add at line 02?

- A. canvas.style.transform = "rotation(90deg)";
- B. canvas.transform(90);
- C. canvas.content.rotate(90);
- D. canvas.style.transform = "rotate(90deg)";

**Correct Answer:** D

**Section:** Volume D

#### Explanation

**Explanation/Reference:**

Explanation:

[https://www.w3schools.com/jsref/prop\\_style\\_transform.asp](https://www.w3schools.com/jsref/prop_style_transform.asp)

**QUESTION 152**

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

You declare the following button element.

```
<input type="button" id="Contact" value="Contact" />
```

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

You need to create an event handler that calls the Contact 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("Contact");  
ScriptEngine.call(button,Contact());
- B. var button = document.getElementById("Contact");  
ScriptEngine.bind(button,Contact());
- C. var button = document.getElementById("Contact");  
button.addEventListener("click",Contact);
- D. var button = document.getElementById("Contact");  
button.attachEvent("onclick",Contact);

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

**Correct Answer:** C

**Section: Volume D** [www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

## Explanation

### Explanation/Reference:

Explanation:

[https://www.w3schools.com/jsref/met\\_element\\_addeventlistener.asp](https://www.w3schools.com/jsref/met_element_addeventlistener.asp)

## QUESTION 153

You develop an HTML5 webpage. You have the following HTML markup:

```
Message: <input type="text" id="message" /><br />
<input type="button" id="postMessage" value="post" onclick="postMessage();"/>
```

You also have the following JavaScript code:

```
var socket = new WebSocket("ws://myserver");
```

You need to post messages by using the HTML5 WebSocket API.

Which code segment should you use?

- A. socket.onmessage(\$("#message").val());
- B. socket.send(\$("#message").val());
- C. var msg = \$("#message").val();\$.post(socket, function (msg) { ... });
- D. var msg = \$("#message").val();\$.post(socket.onmessage, function (msg) { ... });

**Correct Answer: B**

**Section: Volume D**

## Explanation

### Explanation/Reference:

References: [https://www.tutorialspoint.com/html5/html5\\_websocket.htm](https://www.tutorialspoint.com/html5/html5_websocket.htm)

## QUESTION 154

You develop an application in HTML5. The application has a field named field1 that uses the month input type.

You need to identify what will occur if the application runs from a browser that does not support the month input type.

What should you identify?

- A. The field1 field will be rendered as a text box.

- B. The field1 field will appear as a label named month.
- C. The web page will display an error message.
- D. The field1 field will not be displayed.

**Correct Answer:** A

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation:

References: <https://stackoverflow.com/questions/18020950/how-to-make-input-type-date-supported-on-all-browsers-any-alternatives>

#### QUESTION 155

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.

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

B.

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

C.

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

D.

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

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

**Correct Answer:** A

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation:

References: [https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global\\_Objects/RegExp](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/RegExp)

**QUESTION 156**

You have the following HTML code.

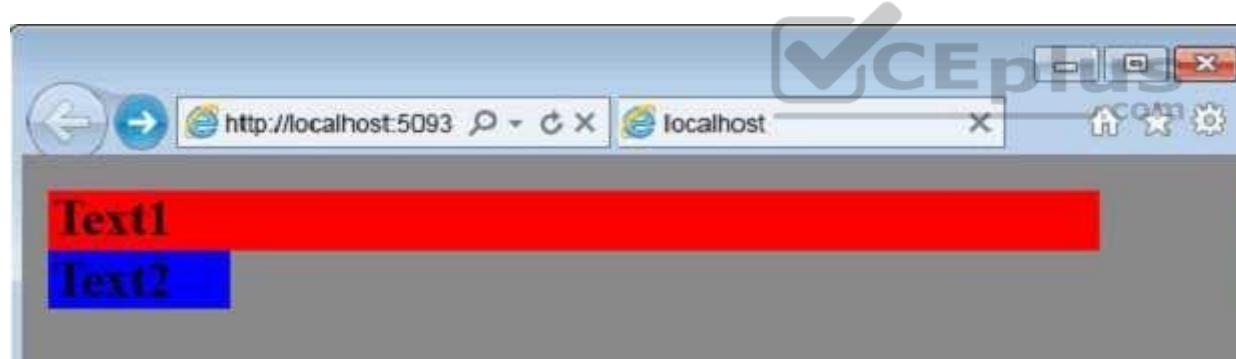


```
<html>
<body style="background-color:grey">
    <span style="background-color:red; width:50%">
        Text1
    </span>
    <div style="background-color:blue; width:50%">
        Text2
    </div>
</body>
</html>
```

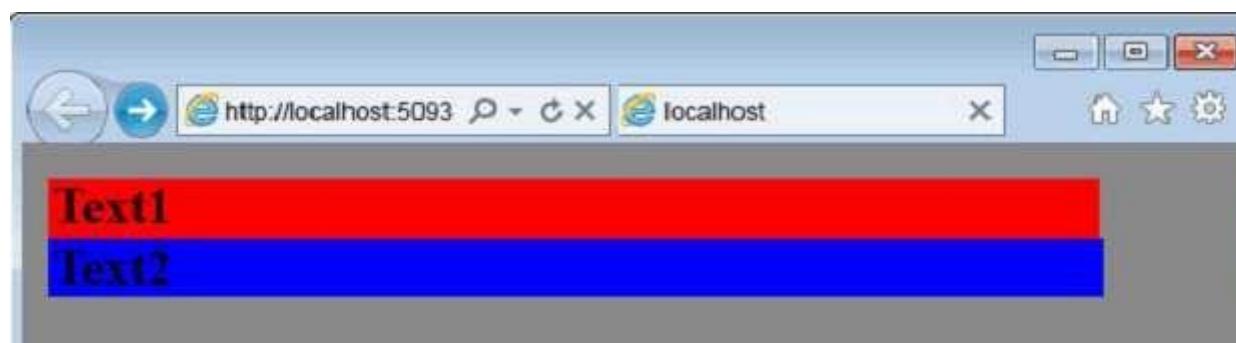
You need to identify how Text1 and Text2 will be displayed.

What should you identify?

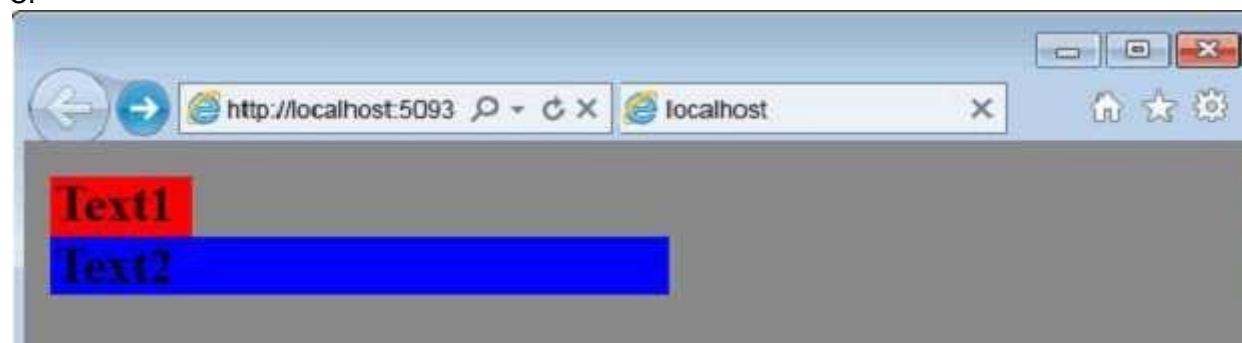
A.



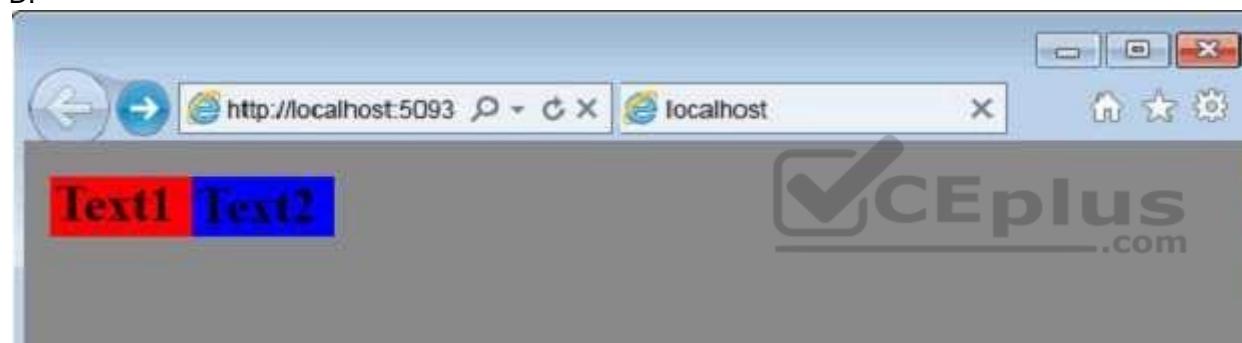
B.



C.



D.



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

**Correct Answer:** D

**Section:** Volume D

#### Explanation

#### Explanation/Reference:

Explanation:

References: [https://www.quackit.com/html\\_5/tags/html\\_span\\_tag.cfm](https://www.quackit.com/html_5/tags/html_span_tag.cfm)  
[https://www.quackit.com/html\\_5/tags/html\\_body\\_tag.cfm](https://www.quackit.com/html_5/tags/html_body_tag.cfm)  
[https://www.quackit.com/html\\_5/tags/html\\_div\\_tag.cfm](https://www.quackit.com/html_5/tags/html_div_tag.cfm)

**QUESTION 157**

You display a long text content in a div.

You need to prevent the vertical scrollbar of the browser from being displayed.

Which CSS element should you use?

- A. @page
- B. @keyframes
- C. overflow-x
- D. overflow-y

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation:

References: [https://www.w3schools.com/cssref/css3\\_pr\\_overflow-y.asp](https://www.w3schools.com/cssref/css3_pr_overflow-y.asp)

**QUESTION 158**

You have the following markup.



```
<div style="display:flex;height:300px;background-color:red">
    <div style="height:100px;background-color:yellow">
        Yellow div text
    </div>
</div>
```

You need to ensure that the yellow div is centered in the red div.

What should you do?

- A. Add the following code to the yellow div.align-content:center
- B. Add the following code to the red div.align-content:center
- C. Add the following code to the red div.margin:auto
- D. Add the following code to the yellow div.margin:auto

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:****QUESTION 159**

A web application has a web page that contains an HTML5 CANVAS element. A web worker extracts messages from the CANVAS element.

You need to ensure that the web worker can read the message sent by the web page.

Which three object types can you use? Each correct answer presents a complete solution.

- A. JSON
- B. parent
- C. JavaScript
- D. window
- E. string
- F. DOM

**Correct Answer:** ACE

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Explanation:

References: <https://www.html5rocks.com/en/tutorials/workers/basics/>

**QUESTION 160**

You have the following code.

```
var product = 'car';
function displayGlobalProduct()
{
    'use strict';
    var product = 'boat';
    alert(eval('product'));
}
displayGlobalProduct();
```

You discover that the displayGlobalProduct function displays a value of boat.

You need to change the function to display a value of car.

Which line of code can you use to replace the alert?

- A. alert(eval(displayGlobalProduct, 'product'));
- B. alert(window.eval(product));
- C. alert(window.eval('product'));
- D. alert(eval(call('product')));

**Correct Answer:** C

**Section:** Volume D

#### Explanation

#### Explanation/Reference:

Explanation:

References: <http://www.endmemo.com/js/eval.php>

#### QUESTION 161

You would like to create a web application by using HTML5, JavaScript, and CSS3. Which of the following Visual Studio 2012 editions can you use? (Choose all that apply.)

- A. Visual Studio Professional 2012
- B. Visual Studio Premium 2012



<http://vceplus.com/>

- C. Visual Studio Ultimate 2012
- D. Visual Studio Express 2012 for Web
- E. Visual Studio Express 2012 for Windows 8

**Correct Answer:** ABCD

**Section:** Volume D

#### Explanation

#### Explanation/Reference:

References: [http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

#### QUESTION 162

[www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

You would like to create a Windows 8 application by using HTML5, JavaScript, and CSS3. Which of the following Visual Studio 2012 editions can you use? (Choose all that apply.)

- A. Visual Studio Professional 2012
- B. Visual Studio Premium 2012
- C. Visual Studio Ultimate 2012
- D. Visual Studio Express 2012 for Web
- E. Visual Studio Express 2012 for Windows 8

**Correct Answer:** ABCE

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

References: [http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

#### **QUESTION 163**

You would like to create web applications and Windows 8 Windows Store applications by using HTML5, JavaScript, and CSS3, but while you're learning, you don't want to buy Visual Studio 2012.

Which of the following Visual Studio 2012 editions can you use for free to accomplish your goal?

- A. Visual Studio Professional 2012
- B. Visual Studio Premium 2012
- C. Visual Studio Ultimate 2012
- D. Visual Studio Express 2012 for Web and Visual Studio Express 2012 for Windows 8

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

References: [http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

#### **QUESTION 164**

You would like to create a Windows 8 application by using Blend and HTML5, JavaScript, and CSS3.

Which feature of Blend enables you to pause an application when it reaches a desired state so you can set the style rules for the page and its controls while in this state? (Choose all that apply.)

- A. Assets panel [www.vceplus.com](http://www.vceplus.com) - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online

- B. Projects panel
- C. Visual Design
- D. Interactive mode

**Correct Answer:** CD

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

References: [http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

#### **QUESTION 165**

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

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

**Correct Answer:** A

**Section:** Volume D



**Explanation**

**Explanation/Reference:**

References: [http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

#### **QUESTION 166**

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

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

References: [http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

**QUESTION 167**

You want to create an expando attribute on several `<h3>` tags that display vehicles for sale. The expando attribute will store the VIN (vehicle identification number) of the vehicle for sale.

Which of the following is the most appropriate example of creating the expando attribute?

- A. `<h3 vin='current VIN here'>1965 VW Beetle</h3>`
- B. `<h3 id='current VIN here'>1965 VW Beetle</h3>`
- C. `<h3 data-vin='current VIN here'>1965 VW Beetle</h3>`
- D. `<h3 datavin='current VIN here'>1965 VW Beetle</h3>`

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

References: [http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)



<http://vceplus.com/>