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70-480

Programming in HTML5 with JavaScript and CSS3

1. This dump contains most of the questions in the exam. Go for it
2. This exam is very much valid today. If you have basic knowledge of all the exam topics and if you understand each question and answer instead of cramming the questions then you can even score 100% marks like I did today.
3. More than 80% questions are from this dump :).
4. Try this, It's perfect in every aspect.
5. Used this dump exclusively, about 70% of these answers were on the exam. The results sheet I was given is a different style than previous exams, perhaps explaining why everyone is seeing different questions. I took this exam today and scored a 800 by making educated guesses on the questions not found in this dump.

Exam A**QUESTION 1**

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: (none)

Explanation

Explanation/Reference:

Reference:

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

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

QUESTION 2

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

```
var length = "75";
```

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

You need to use the statement that meets this requirement.

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

A. `if (length == 75)`

B. `if (length === 75)`

C. `if (length != 75)`

D. `if (length === "75")`

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

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

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

The application must:

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

You need to implement the requirements.

Which code segment should you use?

- ☐ A. `if (doWork() == -2146823281) {
 ...
}`
- ☐ B. `if (doWork() == "object is null or undefined") {
 ...
}`
- ☐ C. `try {
 doWork();
} catch(e) {
 if (e.number == -2146823281)
 ...
}`
- ☐ 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: (none)

Explanation

Explanation/Reference:

QUESTION 4

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

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

What is displayed in the alert from line 11?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

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

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

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

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

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/html/html5_serversentevents.asp <http://www.html5rocks.com/en/tutorials/workers/basics/>

QUESTION 6

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

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

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

You need to implement the loadAddress function.

Which code segment should you use?

- ☐ A. `$.get('data.xml', function (data) {
 (function (scope) {
 scope.parseAddress(data);
 })(data);
});`
- ☐ B. `$.get('data.xml', function (data, innerScope) {
 innerScope.parseAddress(data);
});`
- ☐ C. `var that = this;
$.get('data.xml', function (data) {
 that.parseAddress(data);
});`
- ☐ D. `$.get('data.xml', function (data) {
 this.parseAddress(data);
});`

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

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: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/jsref/event_onblur.asp

QUESTION 8

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 5em 0px`
- D. `text-shadow: 72pt 0em 5px;`

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference:

See <http://www.w3.org/TR/css3-text/#text-shadow>

All options are incorrect nearest correct answers are B or D??? #obj {text-shadow: <x-offset> <y-offset> <blur-radius> <color>; } <x-offset> +n right -n left

<y-offset> +n bottom -n top

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

Hence actually answer must be

0px, 1in, 5px 0r 0px, 72pt, 5px

QUESTION 9

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

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

You have the following requirements:

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

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

Which code segment should you use?

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

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

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

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

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

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

You have the following requirements:

You must place content in the first column of the second row.

The content must span two columns.

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

Which CSS segment should you use?

- ☐ A. `#itemSpan {
 -ms-grid-row: 2;
 -ms-grid-column: 1;
 -ms-grid-column-span: 2
}`
- ☐ B. `#itemSpan {
 -ms-grid-row: 2;
 -ms-grid-column: 1;
 -ms-grid-column-span: initial
}`
- ☐ C. `#itemSpan {
 -ms-grid-row: 2;
 -ms-grid-column: 1;
 -ms-grid-column-width: 2;
}`
- ☐ D. `#itemSpan {
 -ms-grid-row: 2;
 -ms-grid-column: 1;
 -ms-grid-column-span: inherit
}`

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

Correct Answer: A
Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

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?

☐ A.

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

☐ C.

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

☐ B.

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

☐ D.

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

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

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

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

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

☐ A.

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

☐ B.

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

☐ C.

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

☐ D.

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

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

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www.css3.info/introduction-opacity-rgba/>

QUESTION 13

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: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/cssref/pr_text_text-transform.asp none, capitalize, uppercase, lowercase and inherit

Example

Transform text in different elements:

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

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

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

QUESTION 14

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



You have the following requirements:

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

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

Which line of code should you use?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference:

[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 15

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: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/jquery/sel_header.asp

QUESTION 16

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?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www.html5rocks.com/en/tutorials/flexbox/quick/>

QUESTION 17

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: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/cssref/pr_class_position.asp

QUESTION 18

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

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

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

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: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/html/html5_form_input_types.asp

QUESTION 19

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: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/html5/att_input_pattern.asp

QUESTION 20

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?

- ☐ A.

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

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

```
function validate() {  
    var name = $("#txtValue").get();  
    if (name == null || name == "")  
        alert("please enter valid value");  
    return;  
}
```
- ☐ 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: (none)

Explanation

Explanation/Reference:

QUESTION 21

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: (none)

Explanation

Explanation/Reference:

QUESTION 22

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.
- D. <div>

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/tags/tag_article.asp

http://www.w3schools.com/html/html5_new_elements.asp

QUESTION 23

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?

☐ 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>
```

☐ 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.

```
<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>
```

☐ 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: (none)

Explanation

Explanation/Reference:

QUESTION 24

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: (none)

Explanation

Explanation/Reference:

answer is great.

QUESTION 25

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: (none)

Explanation

Explanation/Reference:

QUESTION 26

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: (none)

Explanation

Explanation/Reference:

definite answer.

QUESTION 27

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: (none)

Explanation

Explanation/Reference:

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

QUESTION 28

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="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: (none)

Explanation

Explanation/Reference:

QUESTION 29

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: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/cssref/pr_text_text-transform.asp none, capitalize, uppercase, lowercase and inherit

Example

Transform text in different elements:

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

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

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

QUESTION 30

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: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/cssref/pr_text_text-transform.asp none,capitalize,uppercase,lowercase and inherit

Example

Transform text in different elements:

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

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

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

QUESTION 31

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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

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 32

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.
- B. <nav>
- C. <table>
- D. <section>

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

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

QUESTION 33

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: (none)

Explanation

Explanation/Reference:

QUESTION 34

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: (none)

Explanation

Explanation/Reference:

QUESTION 35

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: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/cssref/pr_text_text-transform.asp none, capitalize, uppercase, lowercase and inherit

Example

Transform text in different elements:

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

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

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

QUESTION 36

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: (none)

Explanation

Explanation/Reference:

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

QUESTION 37

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: (none)

Explanation

Explanation/Reference:

* -ms-grid-rows property

auto

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

Incorrect:

Not A: The width of the columns must not change when the screen is resized or rotated.

Not B, Not 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 38

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

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

The application must place a border on only the first UL element that is contained in the DIV element.

You need to update the webpage.

What should you do?

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

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

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

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

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

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

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

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

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

D. Option D

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

You troubleshoot a webpage that contains the following HTML element:

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

The following JavaScript code is included in a script tag in the HEAD section of the webpage:

(Line numbers are included for reference only.)

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

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

What should you do?

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

- C. Insert the following code segment at line 07:
canvas.onclick = clickReporter;
- D. Insert the following code segment at line 07:
canvas, click = clickReporter;

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

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: (none)

Explanation

Explanation/Reference:

QUESTION 41

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: (none)

Explanation

Explanation/Reference:

QUESTION 42

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?

☐ A.

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

☐ 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.

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

☐ 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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

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?

- ☐ A.

```
if (typeof (e) == "ValidationException") {  
    handleValidationException (e.message);  
} else if (typeof (e) == "LogicException") {  
    handleLogicException (e.message);  
} else {  
    throw e;  
}
```
- ☐ B.

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

```
switch (e) {  
    case ValidationException:  
        handleValidationException (e.message);  
        break;  
    case LogicException:  
        handleLogicException (e.message);  
        break;  
    default:  
        throw e;  
}
```
- ☐ 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: (none)

Explanation

Explanation/Reference:

QUESTION 44

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

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

A CSS style sheet must be applied dynamically. The style must visibly change the appearance of the paragraph on the page. You need to apply a style the paragraph.

Which line of code should you use?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

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

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

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

QUESTION 45

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

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

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

Which element should you use?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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 46

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: (none)

Explanation

Explanation/Reference:

corrected.

QUESTION 47

You develop an HTML5 application that allows users to upload files from their local computers. The user interface must remain responsive during the upload.

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

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

Choose two.)

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

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

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 48

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

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

Which method should you use?

☐ A.

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

☐ B.

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

☐ C.

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

☐ D.

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

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

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: A

Section: (none)

Explanation

Explanation/Reference:

answer is updated.

QUESTION 50

You are developing an application that analyzes population data for major cities in the United States. The application retrieves population statistics for a city by using a web service.

You need to request data from the web service by using jQuery.

Which code segment should you use?

- ☐ A.

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

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

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

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

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: (none)

Explanation

Explanation/Reference:

QUESTION 52

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?

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 53**

You develop a webpage that allows a user to download a 3PEG image and convert it to a PNG file.

You need to implement the code to download the contents of the JPEG image with no additional decoding.

Which JavaScript function should you use?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:**QUESTION 54**

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.
- C. <tbody>
- D. <cd>

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

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 55

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: B

Section: (none)

Explanation

Explanation/Reference:

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

QUESTION 56

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: (none)

Explanation

Explanation/Reference:

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 57

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

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

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

Which code segment should you insert at line 04?

- ☐ A. `if (!/^[A-Za-z0-9_]+$/.test(input.value))
input.value = "Invalid";`
- ☐ B. `if (!/^[A-Za-z0-9_]/.test(input.value))
input.value = "Invalid";`
- ☐ C. `var regEx = new RegExp("^\\w");
if (!input.value.match(regEx))
input.value = "Invalid";`
- ☐ D. `var regEx = "[\\w\\d]";
if (!input.value.match(regEx))
input.value = "Invalid";`

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Example:

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

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

```

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

```

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

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

QUESTION 58

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="myVideon heigh="320" width="400" src="myVideo.vtt" controls> </video>
- C. <video _d="myVideon height="320" width="400" src="myVideo.vtt" autoplay> </video>
- D. <video id="myVideo" height="320" width="400" src="myVideo.vtt" contextinenu="Startstopn> </video>

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

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: (none)

Explanation

Explanation/Reference:

exact.

QUESTION 60

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: (none)

Explanation

Explanation/Reference:

Note:

* select option:selected

:selected Selector

Description: Selects all elements that are selected.

QUESTION 61

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" stytem" visibility:hidden;" required />`
- D. `<input type="button" value="password" required />`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

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?

- ☐ A. `var stock = this;
$.get('data.xml', function (data) {
 stock.parseStock(data);
});`
- ☐ B. `$.get('data.xml', function (data, innerScope) {
 innerScope.parseStock(data);
});`
- ☐ C. `$.get('data.xml', function (data) {
 this.parseStock(data);
});`
- ☐ D. `$.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: (none)

Explanation

Explanation/Reference:

QUESTION 63

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: (none)

Explanation

Explanation/Reference:

Topic 4, Volume D

QUESTION 64

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

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

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 long-running scripts to handle computationally intensive tasks, but without blocking the UI or other scripts to handle user interactions

QUESTION 65

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?

- ☐ A.

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

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

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

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: (none)

Explanation

Explanation/Reference:

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

QUESTION 67

You develop an HTML application that is located at www.adventure-works.com.

The application must load JSON data from 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: (none)

Explanation

Explanation/Reference:

* 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');
```

* 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.[1] 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.[2] It is more powerful than only allowing same-origin requests, but it is more secure than simply allowing all such cross-origin requests.

QUESTION 68

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: (none)

Explanation

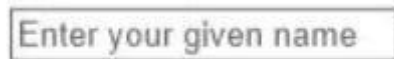
Explanation/Reference:

appropriate answer.

QUESTION 69

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:

A screenshot of a web browser showing a text input field with the placeholder text "Enter your given name". The text is in a light gray font and is centered within the input field.

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: (none)

Explanation

Explanation/Reference:

QUESTION 70

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: (none)

Explanation

Explanation/Reference:

QUESTION 71

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: (none)

Explanation**Explanation/Reference:****QUESTION 72**

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="10" max="10" value="5">`

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:**

`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 73

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?

☐ A.

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

☐ B.

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

☐ C.

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

☐ 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: (none)

Explanation

Explanation/Reference:

QUESTION 74

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

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 75

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?

- ☐ A.

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

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

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

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

- ☐ 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: (none)

Explanation

Explanation/Reference:

* 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.

* JavaScript Form Validation

JavaScript can be used to validate data in HTML forms before sending off the content to a server.

Form data that typically are checked by a JavaScript could be:

has the user left required fields empty?

has the user entered a valid e-mail address?

has the user entered a valid date?

has the user entered text in a numeric field?

* document.getElementById

Returns a reference to the element by its ID.

Syntax

```
element = document.getElementById(id);
```

where

element is a reference to an Element object, or null if an element with the specified ID is not in the document.

id is a case-sensitive string representing the unique ID of the element being sought.

* The `getElementsByName()` method accesses all elements with the specified name. Gets a collection of objects based on the value of the NAME or ID attribute.

Syntax

`document.getElementsByName(name)`

QUESTION 76

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?

☐ A.

```
window.onerror = function () {  
    ...  
}
```

☐ B.

```
Error.constructor = function () {  
    ...  
}
```

☐ C.

```
Error = function () {  
    ...  
}
```

☐ D.

```
document.onerror = function () {  
    ...  
}
```

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 77

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: (none)

Explanation

Explanation/Reference:

QUESTION 78

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?

- ☐ A.

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

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

```
$('#addBoxOfItems').on(function (event) {
    for (var i = 0; i < itemsPerBox; i++) {
        $('#addOneItem').click();
    }
});
```
- ☐ 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: (none)

Explanation

Explanation/Reference:

QUESTION 79

You develop an HTML application that is located at www.adventure-works.com. The application must load JSON data from 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: (none)

Explanation

Explanation/Reference:

QUESTION 80

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.

Which line of code should you use?

- A. `<iframe sandbox src="frame1.html"X/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: (none)

Explanation

Explanation/Reference:

QUESTION 81

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: (none)

Explanation

Explanation/Reference:

QUESTION 82

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: (none)

Explanation

Explanation/Reference:

QUESTION 83

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 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: (none)

Explanation

Explanation/Reference:

QUESTION 84

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: (none)

Explanation

Explanation/Reference:

QUESTION 85

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"x/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: (none)

Explanation

Explanation/Reference:

QUESTION 86

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 show/Dialog button.

Which code segment should you insert at line 02?

- 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: (none)

Explanation

Explanation/Reference:

QUESTION 87

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: (none)

Explanation

Explanation/Reference:

QUESTION 88

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: (none)

Explanation

Explanation/Reference:

QUESTION 89

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:

```
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:

```
onclick="someEvent() "
```


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

Correct Answer: AB

Section: (none)

Explanation

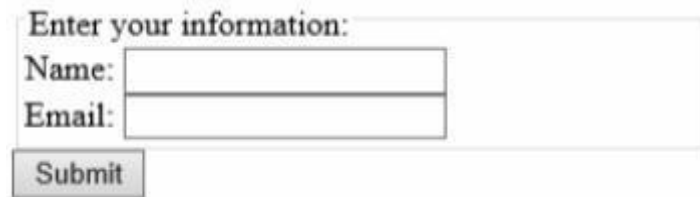
Explanation/Reference:

QUESTION 90

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:

Submit

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 91

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: (none)

Explanation

Explanation/Reference:

QUESTION 92

You are developing an application to track project management for your company. The status of the project is stored in a variable named percentComplete.

The method must execute only when percentComplete is equal to the numeric value 100.

You need to develop the application to meet the requirement.

Which code segment should you use?

☐ A. `if (percentComplete = 100 || percentComplete != 100) {`
 `...`
 `}`

☐ B. `if (percentComplete = 100 && percentComplete != 100) {`
 `...`
 `}`

☐ C. `if (percentComplete % 100) {`
 `...`
 `}`

☐ D. `if (percentComplete === 100) {`
 `...`
 `}`

☐ E. `if (percentComplete = 100) {`
 `...`
 `}`

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 93

You have a webpage that includes the following markup and code:

```
<!DOCTYPE html>
<html>
  <head>
    <script>
      function start() {
        var counter = 10;
        var fun = function () {
          counter = 20;
        }
        return counter;
      }
    </script>
  </head>
  <body>
    <button id="submit" onclick="alert(start());">Start</button>
  </body>
</html>
```

You need to troubleshoot the code by clicking the Submit button.

Which value will be displayed?

- A. 10
- B. 20
- C. Undefined
- D. Runtime error

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 94

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

```
<div class="new" Item">...</div>
```

You have the following requirements:

In addition to your CSS, you must use a corporate branded stylesheet named corporate.css.

The corporate.css file contains the style rule that must be used for .newsItem. You must use the corporate.css file to ensure that the webpage changes when the brand changes.

You must add additional style rules to the webpage.

You cannot modify the corporate.css file.

You need to apply the appropriate CSS rules to meet the requirements.

What should you do?

- A. Add a CSS class named .newsItemUpdates to the webpage, add only the new styles to this class, and update the class attribute of the HTML markup:
`<div class=newsItem newsItemUpdates">..</div>`
- B. Update the corporate.css file to include! important for each rule for the .newsItem. class, and add the new CSS rules to the webpage by using the CSS class .newsItem.
- C. Add a CSS class named .newsItemUpdates to the webpage, add the new styles to this class, and update the HTML markup to replace the .newsItem class with this new class:
`<div class*"newsItemUpdates">...</div>`
- D. Add the new CSS rules to the webpage by using the CSS class .newsItem, and add! important to each rule.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 95

You are developing an e-commerce website. Users place products into a shopping cart.

You need to ensure that the shopping cart data is available between browser sessions.

Which object should you use to store the shopping cart data?

- A. clientStorage
- B. localStorage
- C. applicationStorage
- D. sessionStorage

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 96

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?

- ☐ A.

```
Customer.apply.GetCommission = function()
{
    alert('payroll');
}
```
- ☐ B.

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

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

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 97

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: (none)

Explanation

Explanation/Reference:

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

QUESTION 98

You are developing a web application by using HTML5.

You have the following requirements.

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?

☐ A.

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

☐ B.

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

☐ C.

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

☐ D.

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

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 99

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  
10     }  
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: (none)

Explanation

Explanation/Reference:

Example:

```
if (value < -100 || value > 100)
```

```
{
```

```
throw new ValidationException(String.Format("Value is {0} than {1}.", (value > 100 ? "greater" : "less"), value));
```

```
}
```

QUESTION 100

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.



The arrow must point down if the stock rate is decreased, as shown in the following graphic.



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: (none)

Explanation

Explanation/Reference:

QUESTION 101

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?

- A. 0
- B. 1
- C. 2
- D. An error

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 102

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: (none)

Explanation

Explanation/Reference:

QUESTION 103

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: (none)

Explanation

Explanation/Reference:

QUESTION 104

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: (none)

Explanation

Explanation/Reference:

QUESTION 105

You are validating user input by using JavaScript and regular expressions.

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

An email address in a function named validateEmail (for example, `firstname@contoso.com`)

A nine-digit number that allows optional hyphens after the second and fifth character in a function named validateSSN(for example, `555555555` or `555-55-5555`)

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

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

Select and Place:

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

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

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

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

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

Answer Area

```
function validateSSN(userinput) {  
    var ssnPattern =  
          
    return ssnPattern.test(userinput);  
}
```

```
function validateEmail(userinput){  
    var emailPattern =  
          
    return emailPattern.test(userinput);  
}
```


Correct Answer:

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

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

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

Answer Area

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

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 106

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

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

You need to implement this functionality.

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

Select and Place:

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

```
str = decodeURIComponent(str);
```

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

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

```
str = decodeURI(str);
```

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

Correct Answer:

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

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

```
str = decodeURI(str);
```

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

Section: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/jquery/ajax_serialize.asp

http://www.w3schools.com/jsref/jsref_encodeuri.asp

QUESTION 107

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

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

The application must:

Retrieve and parse data from the web service using binary format if possible

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

You need to develop the application to meet the requirements.

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

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

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

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

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

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

Hot Area:

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

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

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

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

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

Correct Answer:


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

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

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

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

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 108

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

You have the following requirements:

All runners must enter their age.

Applications must not be accepted from runners less than 18 years of age or greater than 90 years.

The slider control must be set to the average age (37) of all registered runners when the page is first displayed.

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

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

Select and Place:

range

slider

0

18

90

100

37

avgAge()

default

value

required

optional

```
<input type="range"
  min="0" max="100"
  step="5" value="37"
  />
```

Correct Answer:

slider

0

100

avgAge()

default

optional

```
<input type="range"
  min="18" max="90"
  step="5" value="37"
  required />
```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 109

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

You have the following requirements:

Users must be able to save information in the application about their favorite destination airport.

The airport information must be displayed in the destination text box whenever the user returns to the page.

You need to develop the site to meet the requirements.

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

```

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

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

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

      var dest = localStorage.destination;

    }
  </script>
</body>

```

Hot Area:

```

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

      var dest = localStorage.destination;

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

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

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

      var dest = localStorage.destination;

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

    }
  </script>
</body>

```


Correct Answer:

```

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

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

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

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

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

    }
  </script>
</body>

```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 110

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

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

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

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

``

Image description

Hot Area:

title	
figcaption	
label	
aside	
figure	
cite	

``

title	
figcaption	
label	
aside	
figure	
cite	

`Image description`

title	
figcaption	
label	
aside	
figure	
cite	

title	
figcaption	
label	

Correct Answer:



```

```



Image description



Section: (none)

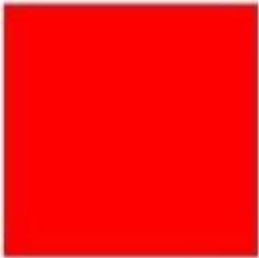
Explanation

Explanation/Reference:

QUESTION 111

An HTML page has a canvas element.

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



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

```
<!DOCTYPE html>
<html>
<body>
  <canvas id="mycanvas" width="300" height="300"></canvas>
  <script type="text/javascript">
    context.fillRect(50, 50, 100, 100);
    var context = canvas.getContext('2d');
    context.fillRect(50, 50, 100, 100);
    context.fillRect(50, 50, 100, 100);
  </script>
</body>
</html>
```

Hot Area:


```

<!DOCTYPE html>
<html>
<body>
    <canvas id="mycanvas" width="300" height="300"></canvas>
    <script type="text/javascript">
        context.fillRect(50, 50, 100, 100);
        context.fillRect(50, 50, 100, 100);
        context.fillStyle = "rgb(255, 0, 0)";
        var canvas = document.getElementById('mycanvas');
        var canvas = document.BeginPath();

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

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

        context.fillRect(50, 50, 100, 100);
        context.fillRect(50, 50, 100, 100);
        context.fillStyle = "rgb(255, 0, 0)";
        var canvas = document.getElementById('mycanvas');
        var canvas = document.BeginPath();
    </script>
</body>
</html>

```

Correct Answer:

```

<!DOCTYPE html>
<html>
<body>
    <canvas id="mycanvas" width="300" height="300"></canvas>
    <script type="text/javascript">
        context.fillRect(50, 50, 100, 100);
        context.fillRect(50, 50, 100, 100);
        context.fillStyle = "rgb(255, 0, 0)";
        var canvas = document.getElementById('mycanvas');
        var canvas = document.BeginPath();

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

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

        context.fillRect(50, 50, 100, 100);
        context.fillRect(50, 50, 100, 100);
        context.fillStyle = "rgb(255, 0, 0)";
        var canvas = document.getElementById('mycanvas');
        var canvas = document.BeginPath();
    </script>
</body>
</html>

```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 112

You are creating a web worker for an HTML5 application.

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

Register an event listener for the web worker

Start and stop the web worker

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

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

```

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

```

Hot Area:

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

```
var data = event.data;
```

```
switch (data.cmd) {
```

```
case 'start':
```

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

```
break;
```

```
case 'stop':
```

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

```
break;
```

```
default:
```

```
self.postMessage('Try again: ' + data.msg);
```

```
default:
```

```
self.postMessage('Try again: ' + data.msg);
```

Correct Answer:


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

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

```
self.addEventListener('message', function(event));
```

```
self.attachEvent('Worker', data);
```

```
self.terminate();
```

```
self.close();
```

```
var data = event.data;
```

```
switch (data.cmd) {
```

```
case 'start':
```

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

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

```
self.addEventListener('message', function(event));
```

```
self.attachEvent('Worker', data);
```

```
self.terminate();
```

```
self.close();
```

```
break;
```

```
case 'stop':
```

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

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

```
self.addEventListener('message', function(event));
```

```
self.attachEvent('Worker', data);
```

```
self.terminate();
```

```
self.close();
```

```
break;
```

```
default:
```

```
self.postMessage('Try again: ' + data.msg);
```

```
default:
```

```
self.postMessage('Try again: ' + data.msg);
```


Section: (none)

Explanation

Explanation/Reference:

QUESTION 113

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

You have the following requirements:

The function must return "Number" if the object is a number.

The function must return "String" if the object is a string.

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

You need to implement the function to meet the requirements.

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

```

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

```

Hot Area:

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

```
  default (obj.constructor) {
```

default
switch
break
case

```
  default Number:
```

default
switch
break
case

```
    return "Number";
```

```
  default ;
```

default
switch
break
case

```
  default String:
```

default
switch
break
case

```
    return "String";
```

```
  default ;
```

default
switch
break
case

Correct Answer:

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

```
  default (obj.constructor) {
```

default
switch
break
case

```
  default Number:
```

default
switch
break
case

```
    return "Number";
```

default
default
switch
break
case

```
  default String:
```

default
default
switch
break
case

```
    return "String";
```

default
default
switch
break
case

Section: (none)

Explanation

Explanation/Reference:

QUESTION 114

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:

throw

"Invalid"

200

Error

break

new [] ([] , []);

Correct Answer:



Section: (none)

Explanation

Explanation/Reference:

QUESTION 115

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

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

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

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

Select and Place:

- user important style sheets
- user normal style sheets
- author normal style sheets
- user agent style sheets
- author important style sheets

Correct Answer:

- user important style sheets
- author important style sheets
- author normal style sheets
- user normal style sheets
- user agent style sheets

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www.w3.org/TR/CSS21/cascade.html>

From highest priority to lowest priority.

User important style sheets

Author important style sheets

Author normal style sheets

User normal style sheets

User agent style sheets

It is pretty clear in this article: <http://www.quora.com/In-what-order-do-CSS-definitions-take-priority>

CSS declarations are applied in this order (from lowest to highest priority):

- User agent declarations (the default styles your browser applies to elements)
- User normal declarations (a user's own stylesheet if they're using one)
- Author normal declarations (this is your normal stylesheet)
- Author important declarations (anything your mark important)
- User important declarations (any important styles from the user's stylesheet)

QUESTION 116

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

You have the following requirements:

The appropriate display resolution must be selected dynamically based on the device connecting to the page.

Mobile devices with a maximum width of 480 pixels must be able to use the page.

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

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

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

Hot Area:

```

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

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

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

```

Correct Answer:

```

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

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

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

```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 117

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

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

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

Select and Place:

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

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

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

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

Answer Area

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

Correct Answer:

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

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

Answer Area

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


Section: (none)

Explanation

Explanation/Reference:

QUESTION 118

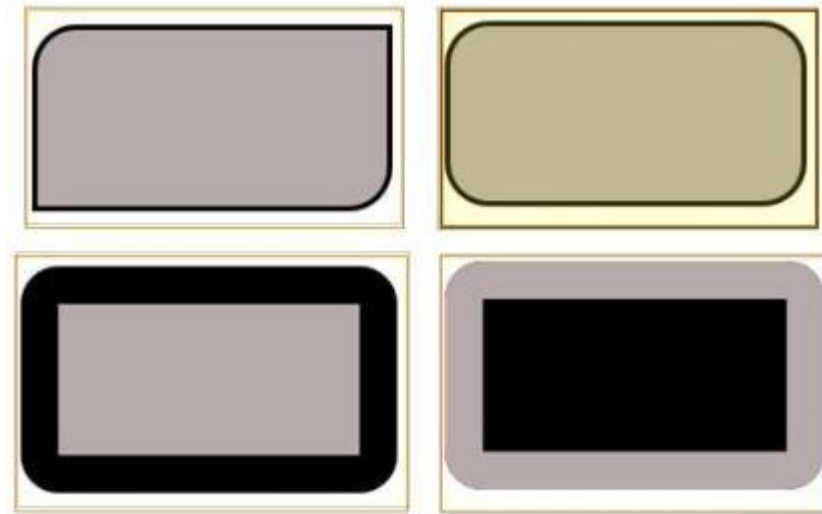
You are developing an HTML5 application for a company. You apply the following style to a DIV element on a page.

```
div
{
  border:3px solid;
  background:#b6aaaa;
  width:200px;
  height:100px;
  top: 10%;
  left:10%;
  border-radius:25px 0px 25px 0px;
}
```

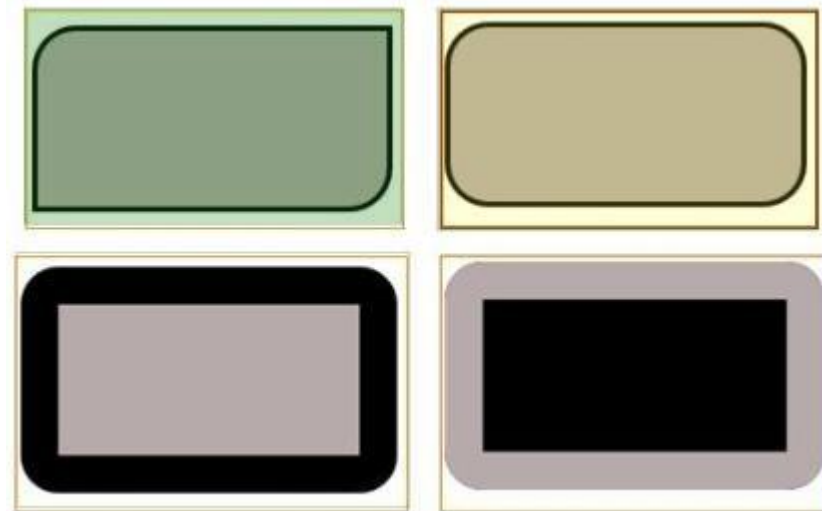
You need to submit a draft illustration of the results of this code.

Which illustration should you submit? (To answer, select the appropriate illustration in the answer area.)

Hot Area:



Correct Answer:



Section: (none)
Explanation

Explanation/Reference:

QUESTION 119

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

You have the following requirements:

The appropriate display resolution must be selected dynamically based on the device that is connecting to the page.

Mobile devices with a maximum width of 480 pixels must be able to use the page.

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

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

Select and Place:

screen and (min-width:200px) and (max-width:480px)

size and (min-width:200px) and (max-width:480px)

screen and (min-width:480px)

size and (min-width:480px)

```
@media  
{  
  
    #navbar {  
        float: none;  
        width: 200px;  
    }  
}  
@media  
{  
  
    #navbar {  
        float: left;  
        width: 500px;  
    }  
}
```

Correct Answer:

size and (min-width:200px) and (max-width:480px)

size and (min-width:480px)

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 120

You are developing a web page by using HTML5 and CSS3.

Hyperlinks on the page must be rendered with a style that reflects the last user action performed.

You need to style the four anchor elements in the document.

In what order should you specify the four anchor selectors? (To answer, move the appropriate anchor selectors from the list of CSS codes to the answer area and arrange them in the correct order.)

Select and Place:



Correct Answer:



Section: (none)

Explanation

Explanation/Reference:

Reference:

You can learn about the anchor pseudo-classes here: http://www.w3schools.com/css/css_pseudo_classes.asp

As it states:

Note: a: hover MUST come after a: link and a: visited in the CSS definition in order to be effective!

Note: a: active MUST come after a: hover in the CSS definition in order to be effective!!

QUESTION 121

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

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

You need to implement this functionality.

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

Hot Area:

```

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

      str = $("form").serialize();
      str = $("form").serialize();
      str = decodeURIComponent(str);
      str = $("form").contents.toString();
      str = $("form").toLocaleString();
      str = decodeURI(str);

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

```


Correct Answer:

```

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

      str = $("form").serialize();
      str = $("form").serialize();
      str = decodeURIComponent(str);
      str = $("form").contents.toString();
      str = $("form").toLocaleString();
      str = decodeURI(str);

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

```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 122

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

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

The application must:

Retrieve and parse data from the web service by using binary format if possible

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

You need to develop the application to meet the requirements.

What should you do? (To answer, drag the appropriate code segment to the correct location. 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:

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

```
if (type == "application/bint")
```

```
if (request.mimeType == "application/bint")
```

```
accepts: 'application/bint, text/xml',
```

```
contentType: 'application/bint, text/xml',
```

```
dataType: 'application/bint, text/xml',
```

.....

```
var request = $.ajax({  
  uri: '/',  
  
  dataFilter: function (data, type) {  
  
  
    return parseBint(data);  
    else  
    return parseXml(data);  
  },  
  success: function (data) {
```

Correct Answer:

```
if (type == "application/bint")
```

```
if (request.mimeType == "application/bint")
```

```
contentType: 'application/bint, text/xml',
```

```
dataType: 'application/bint, text/xml',
```

.....

```
var request = $.ajax({  
  uri: '/',  
  accepts: 'application/bint, text/xml',  
  dataFilter: function (data, type) {  
    if (request.getResponseHeader("Content-Type") == "application/bint")  
      return parseBint(data);  
    else  
      return parseXml(data);  
  },  
  success: function (data) {
```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 123

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:



Correct Answer:

	try
debug	catch(e)
throw	finally

Section: (none)

Explanation

Explanation/Reference:

The fopen statement is put within the try clause.

The catch(e) will catch a fopen error.

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

QUESTION 124

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, select the appropriate option from the drop-down list in the answer area.)

Work Area

throw new throw (throw , throw);

Hot Area:

Work Area

throw new throw (throw , throw);

throw	throw	throw	throw
"Invalid"	"Invalid"	"Invalid"	"Invalid"
200	200	200	200
Error	Error	Error	Error
break	break	break	break

Correct Answer:

Work Area

throw new throw (throw , throw);

throw	throw	throw	throw
"Invalid"	"Invalid"	"Invalid"	"Invalid"
200	200	200	200
Error	Error	Error	Error
break	break	break	break

Section: (none)
Explanation

Explanation/Reference:

QUESTION 125

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

You have the following requirements:

The function must return "Number" if the object is a number

The function must return "String" if the object is a string

The function must return "Unknown" if the object is neither a number nor a string

You need to implement the function to meet the requirements.

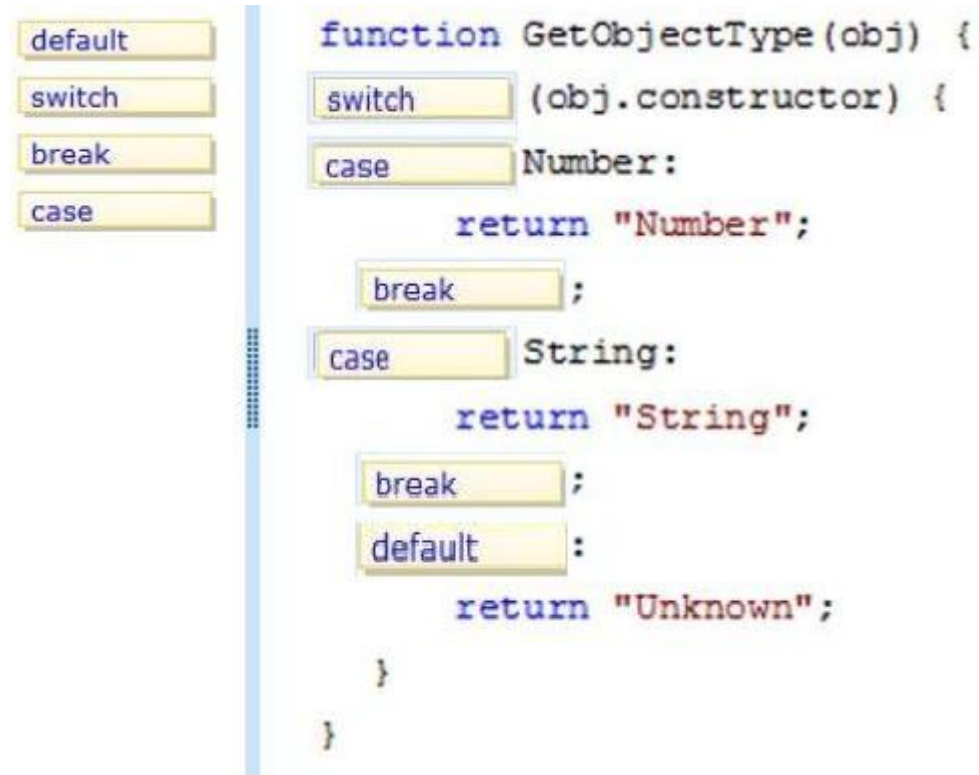
How should you build the code segment? (To answer, drag the appropriate word to the correct location in the code segment. Each word may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

default
switch
break
case

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

Correct Answer:



Section: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/js/js_switch.asp

QUESTION 126

You are developing an application for an online retailer. The company ships only to certain countries.

The application must:

Store a list of country codes in an array

Validate the country code of the shipping address against the countries array

Include a Boolean value in the array that indicates whether or not you can ship to the country

Display a list of countries that can be shipped to if the user inputs a code for a country that the retailer cannot ship to

You need to develop the application to meet the requirements.

Which code segment or segments should you use? (To answer, drag the appropriate code segment or segments from the list of code segments to the correct location or locations in the work 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:

```
if (!arr[ctry]) {
```

```
for (var i in arr)  
  if (arr[i]) txt += i + " ";
```

```
if (arr[ctry]) {
```

```
for (var i; i < arr.length(); i++)  
  if (arr[i]) txt += i + " ";
```

```
for (var i in arr)  
  txt += i + " ";
```

.....

```
<input id="Country" type="text" />  
<input type="button" value="submit" onclick="validate()" />  
<div id="valid"></div>  
<script>  
  function validate() {  
    var arr = new Array();  
    arr["US"] = true;  
    arr["CA"] = true;  
    arr["UK"] = false;  
  
    var ctry = document.getElementById("Country").value;
```

```
    var txt = "Country is not valid. ";
```

Correct Answer:

```
if (arr[ctry]) {
```

```
for (var i; i < arr.length(); i++)  
    if (arr[i]) txt += i + " ";
```

```
for (var i in arr)  
    txt += i + " ";
```

.....

```
<input id="Country" type="text" />  
<input type="button" value="submit" onclick="validate()" />  
<div id="valid"></div>  
<script>  
    function validate() {  
        var arr = new Array();  
        arr["US"] = true;  
        arr["CA"] = true;  
        arr["UK"] = false;  
  
        var ctry = document.getElementById("Country").value;  
        if (!arr[ctry]) {  
            var txt = "Country is not valid. ";
```


Section: (none)

Explanation

Explanation/Reference:

QUESTION 127

You are creating a web worker for an HTML5 application.

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

Register an event listener for the web worker

Start and stop the web worker

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

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

Select and Place:

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

```
self.addEventListener('message', function(event));
```

```
self.attachEvent('Worker', data);
```

```
self.terminate();
```

```
self.close();
```

```
var data = event.data;
```

```
switch (data.cmd) {
```

```
  case 'start':
```

```
    break;
```

```
  case 'stop':
```

```
    break;
```

```
  default:
```

```
    self.postMessage('Try again: ' + data.msg);
```

```
};
```

```
}, false);
```

Correct Answer:

```
self.attachEvent('Worker', data);
```

```
self.terminate();
```

```
self.addEventListener('message', function(event));
```

```
var data = event.data;
```

```
switch (data.cmd) {
```

```
case 'start':
```

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

```
break;
```

```
case 'stop':
```

```
self.close();
```

```
break;
```

```
default:
```

```
self.postMessage('Try again: ' + data.msg);
```

```
};
```

```
}, false);
```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 128

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

You have the following requirements:

Users must be able to save information in the application about their favorite destination airport.

The airport information must be displayed in the destination text box whenever the user returns to the page.

You need to develop the site to meet the requirements.

Which line or lines of code should you use? (To answer, drag the appropriate command or commands from the list of commands to the correct location or locations in the work area. Each line of code may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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

```
localStorage.destination = dest;
```

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

```
sessionStorage.destination = dest;
```

xxxxxxxxxxxx

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

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

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

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

Correct Answer:

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

```
sessionStorage.destination = dest;
```

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

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

    function storeDestination(id) {
      var dest = document.getElementById(id).value;
      localStorage.destination = dest;
    }
  </script>
</body>
```


Section: (none)

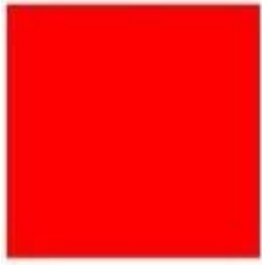
Explanation

Explanation/Reference:

QUESTION 129

An HTML page has a CANVAS element.

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



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

Select and Place:

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

```
context.fillStyle = "rgb(255, 0, 0)";
```

```
var canvas = document.getElementById('mycanvas');
```

```
var canvas = document.BeginPath();
```

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

.....

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

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

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

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

```
  </script>
```

```
</body>
```

```
</html>
```

Correct Answer:

```
var canvas = document.BeginPath();
```

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

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

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

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

```
var canvas = document.getElementById('mycanvas');
```

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

```
context.fillStyle = "rgb(255, 0, 0)";
```

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

```
</script>
```

```
</body>
```

```
</html>
```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 130

You are developing a web page for runners who register for a race.

The page includes a slider control that allows users to enter their age.

You have the following requirements:

All runners must enter their age.

Applications must not be accepted from runners less than 18 years of age or greater than 90 years.

The slider control must be set to the average age (37) of all registered runners when the page is first displayed.

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

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

Select and Place:

range	<input
slider	type=" "
0	min=" "
18	max=" "
90	step=" "
100	value=" "
37	
avgAge()	
default	/>
value	
required	
optional	

Correct Answer:

	<input
slider	type=" range "
0	min=" 18 "
	max=" 90 "
	step=" value "
100	value=" 37 "
	required
avgAge ()	
default	
optional	
	>

Section: (none)

Explanation

Explanation/Reference:

QUESTION 131

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

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

You need to determine the order in which the style sheets will be applied by the browser.

In which order will the five style sheets be applied? (To answer, move the style sheet types from the list of style sheet types to the answer area and arrange them in the order that they will be applied.)

Select and Place:

Initial state of the interface. The left pane contains a list of style sheet types. The right pane is empty, ready for the user to place the items in the correct order.

Correct Answer:

Final state of the interface showing the correct order of style sheet application. The items are placed in the answer area in the following order from top to bottom:

- user agent style sheets
- user normal style sheets
- author normal style sheets
- author important style sheets
- user important style sheets

Section: (none)
Explanation

Explanation/Reference:

Note:

The order of declarations from least important to most important:

- user agent declarations
- user normal declarations
- author normal declarations
- author important declarations
- user important declarations

QUESTION 132

You are reviewing the CSS markup for an HTML5 page that displays a news article. The CSS markup for the page is as follows:

```
h4 {  
  color: powderblue;  
}  
.headline {  
  color: red;  
}  
article {  
  color: black;  
  font-style: normal;  
}  
aside h4 {  
  font-style: italic !important;  
  color: yellow;  
}  
article h4 {  
  font-style: normal;  
  color: sienna;  
}
```

The HTML markup for the page is as follows:

```
<div>  
  <h4>International News</h4>  
  <article>  
    <h4 class="headline">New Developments!</h4>  
    <aside>  
      <h4>Impact On Markets</h4>  
    </aside>  
  </article>  
</div>
```

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

Hot Area:

Yes	No	Description of Behavior
<input type="radio"/>	<input type="radio"/>	The color of the International News header is red.
<input type="radio"/>	<input type="radio"/>	The color of the New Developments! header is black.
<input type="radio"/>	<input type="radio"/>	The color of the Impact On Markets header is yellow.
<input type="radio"/>	<input type="radio"/>	The text of the Impact On Markets header is italicized.

Correct Answer:

Yes	No	Description of Behavior
<input type="radio"/>	<input checked="" type="radio"/>	The color of the International News header is red.
<input type="radio"/>	<input checked="" type="radio"/>	The color of the New Developments! header is black.
<input type="radio"/>	<input checked="" type="radio"/>	The color of the Impact On Markets header is yellow.
<input checked="" type="radio"/>	<input type="radio"/>	The text of the Impact On Markets header is italicized.

Section: (none)
Explanation

Explanation/Reference:

QUESTION 133

You review code that uses WebSockets for a browser-based multiplayer game. Each player sends a move to the server, which then sends the move to all connected game instances. The following code runs in the browser and handles the sending and receiving of moves:

```
var moveList = new Array();
var myMoves = {};

var server = new WebSocket('ws://gameserver.proseware.com/');
server.onmessage = function(message) {
    if (myMoves[message.data.id] == undefined)
        moveList.push(message.data);
};

server.onopen = function() {
    server.send(getUserName());
};

function sendMove() {
    var nextMove = getMove();
    myMoves[nextMove.id] = nextMove;
    server.send(nextMove);
}
```

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

Hot Area:

Yes	No	Description of Behavior
<input checked="" type="checkbox"/>	<input type="checkbox"/>	The moves are added to the moveList array in the order in which they were played.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	The username is sent to the server before any moves are sent or received.
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	The player's own moves will be added to the moveList array.

Correct Answer:

Yes	No	Description of Behavior
<input checked="" type="checkbox"/>	<input type="checkbox"/>	The moves are added to the moveList array in the order in which they were played.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	The username is sent to the server before any moves are sent or received.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	The player's own moves will be added to the moveList array.

Section: (none)

Explanation

Explanation/Reference:

QUESTION 134

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

```
<ul id="languages">
  <li>HTML</li>
  <li>JavaScript</li>
  <li>Classic ASP</li>
  <li>ASP.Net</li>
</ul>
```

You also have the following JavaScript variable defined:

```
var languages = [];
```

You need to add statements to an existing JavaScript function to sort the list items.

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

Select and Place:

	Answer Area
<pre>languages = \$.makeArray(items);</pre>	
<pre>languages.sort (function (s) { return s.innerHTML; });</pre>	
<pre>for (var i = 0, l = items.length; i < l; i++) items[i].innerHTML = languages[i];</pre>	
<pre>for (var i = 0, l = items.length; i < l; i++) languages.push(items[i].innerHTML);</pre>	
<pre>var items = document.getElementsByTagName ("li");</pre>	
<pre>items = \$.makeArray(languages);</pre>	
<pre>languages.sort();</pre>	
<pre>\$(languages).appendTo("#languages");</pre>	

Correct Answer:

	Answer Area
<code>languages = \$.makeArray(items);</code>	<code>var items = document.getElementsByTagName("li");</code>
<code>languages.sort(function (s) { return s.innerHTML; });</code>	<code>for (var i = 0, l = items.length; i < l; i++) languages.push(items[i].innerHTML);</code>
	<code>languages.sort();</code>
	<code>for (var i = 0, l = items.length; i < l; i++) items[i].innerHTML = languages[i];</code>
<code>items = \$.makeArray(languages);</code>	
<code>\$(languages).appendTo("#languages");</code>	

Section: (none)

Explanation

Explanation/Reference:

Note:

* getElementsByTagName

The getElementsByTagName() method accesses all elements with the specified tagname.

* Example:

```
// Get the list items and setup an array for sorting
var lis = ul.getElementsByTagName("LI");
var vals = [];

// Populate the array
for(var i = 0, l = lis.length; i < l; i++)
    vals.push(lis[i].innerHTML);

// Sort it
vals.sort();

// Sometimes you gotta DESC
if(sortDescending)
    vals.reverse();

// Change the list on the page
for(var i = 0, l = lis.length; i < l; i++)
    lis[i].innerHTML = vals[i];
}
```

QUESTION 135

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

```
<table id="fruitTable">
  <tr>
    <th>Fruit</th>
    <th>Inventory</th>
  </tr>
</table>
```

You also have the following JavaScript code segment:

```
var jsonFruit = { "apples" : "12", "bananas" : "8", "watermelon" : "3" }
```

You need to add additional rows to the fruitTable element by processing the jsonFruit values in the order listed.

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

Select and Place:

	Answer Area
<pre>\$("#tr>td" + key + "</td><td>" + val + "</td></tr>") .appendTo('#fruitTable');</pre>	
<pre>\$("#fruitTable tr:last").after(data);</pre>	
<pre>jsonFruit.push(key, val);</pre>	
<pre>\$("#fruitTable").after("<tr><td>" + key + "</td><td>" + val + "</td></tr>");</pre>	
<pre>var data = \$.parseJSON(jsonFruit);</pre>	
<pre>\$.each(jsonFruit, function (key, val) {</pre>	
<pre> data.push(key, val);</pre>	
<pre>});</pre>	

Correct Answer:

	Answer Area
	<pre>\$.each(jsonFruit, function (key, val) {</pre>
<pre>\$("#fruitTable tr:last").after(data);</pre>	<pre>S("<tr><td>" + key + "</td><td>" + val + "</td></tr>")</pre>
<pre>jsonFruit.push(key, val);</pre>	<pre>.appendTo('#fruitTable');</pre>
<pre>\$("#fruitTable").after("<tr><td>" + key + "</td><td>" + val + "</td></tr>");</pre>	<pre>});</pre>
<pre>var data = \$.parseJSON(jsonFruit);</pre>	
<pre>data.push(key, val);</pre>	

Section: (none)
Explanation

Explanation/Reference:**QUESTION 136**

You have the following code:

```
01 $(document).ready(function () {  
02     $('#submit').click(function () {  
03         $.getJSON({  
04             url: "url/GetImage",  
05             success: function (result) {  
06                 var personImage = new PersonImage(result);  
07                 $('#happy').html(personImage.img);  
08             }  
09         });  
10     });  
11 });  
12 function PersonImage(image) {  
13  
14 }
```

The web service returns a JSON object that contains two properties named Description and FileName.

The PersonImage object must meet the following requirements:

Create an object that represents an image that will be displayed.

Set the image properties from the values that are returned by the web service.

Expose the image as a property of the PersonImage object.

You need to insert code at line 13 to complete the implementation of the PersonImage object.

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

Select and Place:

	Answer Area
<code>img.alt = image.Description; img.src = image.FileName;</code>	
<code>return this.toHTMLImage();</code>	
<code>return this.img;</code>	
<code>this.img = img;</code>	
<code>this.img = new document.images();</code>	
<code>this.img = document.createElement('img');</code>	
<code>var img = document.createElement('img');</code>	
<code>this.img.Description = image.Description; this.img.FileName = image.FileName;</code>	

Correct Answer:

	Answer Area
	<pre>var img = document.createElement('img');</pre>
<pre>return this.toHTMLImage();</pre>	<pre>img.alt = image.Description; img.src = image.FileName;</pre>
<pre>this.img = img;</pre>	<pre>return this.img;</pre>
<pre>this.img = new document.images();</pre>	
<pre>this.img = document.createElement('img');</pre>	
<pre>this.img.Description = image.Description; this.img.FileName = image.FileName;</pre>	

Section: (none)

Explanation

Explanation/Reference:

Note:

* Image Object

The Image object represents an embedded image.

For each tag in an HTML document, an Image object is created.

Notice that images are not technically inserted into an HTML page, images are linked to HTML pages. The tag creates a holding space for the referenced image.

* Image Object Properties include

alt, Sets or returns the value of the alt attribute of an image

src, Sets or returns the value of the src attribute of an image

QUESTION 137

You develop an HTML messaging application that allows users to send messages. The messages can have an optional file attachment that is identified by a filename.

You use the following function to send a message:

```
function send(to, args) {  
    if (args.fileName !== undefined) {  
        sendFile(to, args.message, args.fileName);  
    } else {  
        sendMessage(to, args.message);  
    }  
}
```

You need to send a message with a file attachment.

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

```
var recipient = $('to').val();  
var body = $('body').val();  
var fileName = $('fileName').val();
```

```
send(recipient, {  
       
});
```

Hot Area:

```

var recipient = $('to').val();
var body = $('body').val();
var fileName = $('fileName').val();

send(recipient, {
  message: body,
  message = body,
  [message] = body,
  args.message(body),
  fileName: fileName,
  fileName = filename,
  args[fileName] = fileName,
  new args.fileName(fileName)
});

```

Correct Answer:

```

var recipient = $('to').val();
var body = $('body').val();
var fileName = $('fileName').val();

send(recipient, {
  message: body,
  message = body,
  [message] = body,
  args.message(body),
  fileName: fileName,
  fileName = filename,
  args[fileName] = fileName,
  new args.fileName(fileName)
});

```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 138

You develop an HTML application that calls a web service to retrieve JSON data. The web service contains one method named GetFullName that returns an Object named data. The data object contains two properties named GivenName and Surname.

You need to load data from the web service to the webpage.

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

Select and Place:

res.data;

res;

res.toString()

fullname.GivenName

fullname.toString()

fullname.GivenName.value

fullname.Surname

fullname.toLocaleString()

fullname.GivenName.value

Answer Area

```
$(document).ready(function () {
    $('#submit').click(function () {
        $.ajax({
            type: "POST",
            url: "Default.aspx/GetFullName",
            data: "{}",
            contentType: "application/json",
            dataType: "json",
            success: function (res) {

                var fullname =  ;

                $('#GivenName').text();

                $('#Surname').text();

            }
        });
    });
});
```

Correct Answer:

	Answer Area
res;	<code>\$(document).ready(function () {</code>
res.toString()	<code>\$('#submit').click(function () {</code>
	<code>\$.ajax({</code>
fullname.toString()	<code>type: "POST",</code>
fullname.GivenName.value	<code>url: "Default.aspx/GetFullName",</code>
	<code>data: "{}",</code>
	<code>contentType: "application/json",</code>
	<code>dataType: "json",</code>
	<code>success: function (res) {</code>
	<code>var fullname = res.data;</code>
	<code>;</code>
	<code>\$('#GivenName').text(fullname.GivenName);</code>
	<code>\$('#Surname').text(fullname.Surname);</code>
	<code>};</code>
	<code>});</code>
	<code>});</code>

Section: (none)

Explanation

Explanation/Reference:

QUESTION 139

A company asks you to create a function that displays loan amounts to their customers.

You must create the function by using JavaScript to meet the following requirements:

Display three different loan amounts to each customer.

Display loan amounts in order starting with the greatest amount and ending with the least amount.

You need to implement the function.

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

Select and Place:

	Answer Area
<code>showSomeLoanAmount();</code>	<code>function showLoanAmounts() {</code>
<code>showAnotherLoanAmount();</code>	<div></div>
<code>var loanAmount = 400;</code>	<code>function showSomeLoanAmount() {</code>
<code>var loanAmount = 800;</code>	<div></div>
<code>var loanAmount = 1000;</code>	<code>function showAnotherLoanAmount() {</code>
	<div></div>
	<code>alert(loanAmount);</code>
	<code>}</code>
	<div></div>
	<code>alert(loanAmount);</code>
	<code>}</code>
	<code>showSomeLoanAmount();</code>
	<code>alert(loanAmount);</code>
	<code>}</code>

Correct Answer:

	Answer Area
<code>showSomeLoanAmount();</code>	<code>function showLoanAmounts() {</code>
	<code>var loanAmount = 400;</code>
	<code>function showSomeLoanAmount() {</code>
	<code>var loanAmount = 800;</code>
	<code>function showAnotherLoanAmount() {</code>
	<code>var loanAmount = 1000;</code>
	<code>alert(loanAmount);</code>
	<code>}</code>
	<code>showAnotherLoanAmount();</code>
	<code>alert(loanAmount);</code>
	<code>}</code>
	<code>showSomeLoanAmount();</code>
	<code>alert(loanAmount);</code>
	<code>}</code>

Section: (none)

Explanation

Explanation/Reference:

QUESTION 140

You develop an HTML5 application that allows images to be dragged and dropped within a webpage. The webpage contains a DIV element and four IMG elements as defined in the code segment below:

```

<div ondrop="myApp.drop(this, event)" ondragenter="return false" ondragover="return false">
  <p>Fruit</p>
</div>
<p>
  
  
  
  
</p>

```

You need to enable drag and drop for the application.

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

```

var myApp = {};
(function () {
  this.drag = function (target, e) {
    
  };

  this.drop = function (target, e) {
    
    target.appendChild(document.getElementById(id));
    e.preventDefault();
  }
}).apply(myApp);

```

Hot Area:

```

var myApp = {};
(function () {
    this.drag = function (target, e) {
        e.dataTransfer.getData('text');
        e.dataTransfer.dropEffect = 'copy';
        e.dataTransfer.effectAllowed = 'all';
        e.dataTransfer.setData('text', target.id);
    };

    this.drop = function (target, e) {
        e.dataTransfer.clearData();
        e.dataTransfer.types.contains('img');
        var id = e.dataTransfer.getData('text');
        var id = e.dataTransfer.setData('text', target.id);

        target.appendChild(document.getElementById(id));
        e.preventDefault();
    }
}).apply(myApp);

```

Correct Answer:

```

var myApp = {};
(function () {
    this.drag = function (target, e) {
        e.dataTransfer.getData('text');
        e.dataTransfer.dropEffect = 'copy';
        e.dataTransfer.effectAllowed = 'all';
        e.dataTransfer.setData('text', target.id);
    };

    this.drop = function (target, e) {
        e.dataTransfer.clearData();
        e.dataTransfer.types.contains('img');
        var id = e.dataTransfer.getData('text');
        var id = e.dataTransfer.setData('text', target.id);

        target.appendChild(document.getElementById(id));
        e.preventDefault();
    }
}).apply(myApp);

```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 141

You are developing an application for a retail store. The application will be used on mobile devices to provide real-time directions to the store.

You have the following requirements:

The application must find out a user's location.

As the user moves, the application must update the screen with the new location.

As the user moves, the application must display the user's speed.

You need to develop the application to meet the requirements.

Which code segment or segments should you use? (To answer, drag the appropriate code segment or segments to the correct location in the work 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:

```
req.onreadystatechange = function () {
```

```
req.open("GET", "TextFile.txt", true);  
req.send();
```

```
window.onload = function () {
```

```
req.getResponseHeader("TextFile.txt");
```

```
<body>  
  <form>  
    <input type="button" value="Submit"  
      onclick="getText()" />  
    <div id="results" />  
  </form>  
  <script>  
    function getText() {  
      var req = new XMLHttpRequest();  
  
      if (req.readyState == 4 && req.status == 200) {  
        document.getElementById("results").innerHTML  
          = req.responseText;  
      }  
    }  
  </script>  
</body>
```

Correct Answer:


```
window.onload = function () {
```

```
req.getResponseHeader("TextFile.txt");
```

```
<body>
  <form>
    <input type="button" value="Submit"
      onclick="getText()" />
    <div id="results" />
  </form>
  <script>
    function getText() {
      var req = new XMLHttpRequest();
      req.onreadystatechange = function () {

        if (req.readyState == 4 && req.status == 200) {
          document.getElementById("results").innerHTML
            = req.responseText;
        }

        req.open("GET", "TextFile.txt", true);
        req.send();

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 142

You are developing an application for a retail store. The application will be used on mobile devices to provide real-time directions to the store.

You have the following requirements:

The application must find out a user's location.

As the user moves, the application must update the screen with the new location.

As the user moves, the application must display the user's speed.

You need to develop the application to meet the requirements.

Which code segment or segments should you use? (To answer, drag the appropriate code segment or segments to the correct location in the work 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:

The interface consists of two main panes. The left pane contains four yellow code segments that can be dragged. The right pane is an HTML editor with a template structure for a geolocation application.

Available Code Segments (Left Pane):

- `navigator.geolocation.watchPosition (locSuccess, locFail);`
- `var spd = position.coords.speed;`
- `navigator.geolocation.getCurrentPosition (locSuccess, locFail);`
- `var spd = position.coords.accuracy;`

HTML Template (Right Pane):

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<body>
  <script>
    [Empty Box]

    function locSuccess(position) {
      [Empty Box]
    }

    function locFail() {
    }
  </script>
</body>
</html>
```

Correct Answer:

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<body>
  <script>

    navigator.geolocation.watchPosition (locSuccess,
    locFail);

    function locSuccess(position) {

      var spd = position.coords.speed;

    }

    function locFail() {

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 143

You develop a webpage. You create the following HTML markup:

```
<!DOCTYPE html>
<html>
  <head>
    <style></style>
  </head>
  <body>
    <div id="top"></div>
    <div id="content">
      <div id="left"></div>
      <div id="main"></div>
      <div id="right"></div>
    </div>
    <div id="bottom"></div>
  </body>
</html>
```

The layout of the webpage must contain three rows. The first row spans the entire width of the page and is labeled #Top. The second row contains three columns. The first column is labeled #Left; the second column is labeled #Main; and the right column is labeled #Right. The #Left and #Right columns are a fixed width. The #Main column occupies the remaining available space. The third and final row spans the entire width of the page and is labeled #Bottom.

The layout of the webpage must resemble the following image:



You need to create the CSS styles to implement the layout.

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

```
#top {width: 100%; height: 200px;}
```

```
#content {display: 
```

```

```

```
width: 100%;
```

```
}
```

```
#content #left {width: 200px; height: 300px;}
```

```
#content #right {width: 200px; height: 300px;}
```

```
#content #main {
```

```
#bottom {width: 100%; height: 200px;}
```

Hot Area:

```
#top {width: 100%; height: 200px;}
```

```
#content {display: 
```

-ms-flex;
-ms-flexbox;
box-flex-group;

<input type="text"/>
-ms-flex-flow: row;
-ms-flex-flow: wrap;
-ms-flex-direction: row;
-ms-flex-direction: wrap;

```
width: 100%;
```

```
}
```

```
#content #left {width: 200px; height: 300px;}
```

```
#content #right {width: 200px; height: 300px;}
```

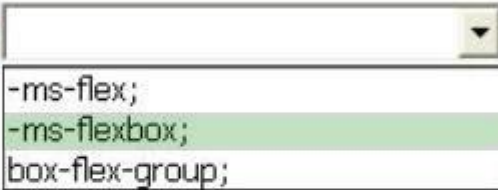
```
#content #main {
```

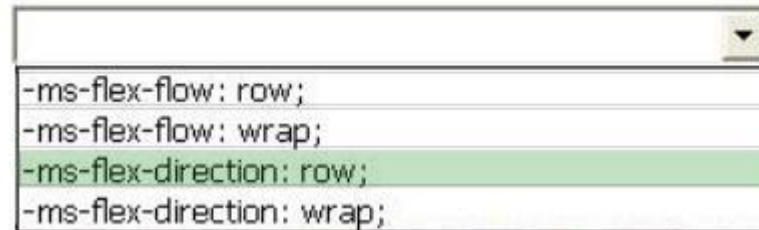
-ms-flex: 0;
-ms-flex: 1;

```
#bottom {width: 100%; height: 200px;}
```

Correct Answer:

```
#top {width: 100%; height: 200px;}
```

```
#content {display: 
```

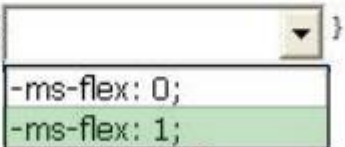
```

```

```
width: 100%;
```

```
}
```

```
#content #left {width: 200px; height: 300px;}
```

```
#content #right {width: 200px; height: 300px;}
```

```
#content #main {
```

```
#bottom {width: 100%; height: 200px;}
```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 144

You develop an HTML application that calls a Simple Object Access Protocol (SOAP) web service to retrieve data.

You need to load data from the web service.

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

Select and Place:

	Answer Area
'application/soap+xml',	<pre>var message = '<soap:Envelope> ... </soap:Envelope>'; \$.ajax(webServiceUri, { contentType: <input type="text"/> type: <input type="text"/> dataType: <input type="text"/> data: message, });</pre>
'application/x-www-form-urlencoded',	
'application/json',	
'GET',	
'HEAD',	
'POST',	
'xml',	
'json',	
'script',	

Correct Answer:

'application/x-www-form-urlencoded',

'application/json',

'GET',

'HEAD',

'json',

'script',

Answer Area

```
var message = '<soap:Envelope> ... </soap:Envelope>';  
$.ajax(webServiceUri, {  
  contentType: 'application/soap+xml',  
  type: 'POST',  
  dataType: 'xml',  
  data: message,  
});
```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 145

You are creating a custom style by using CSS3.

You have the following requirements to complete the style:

If the text in a line must wrap to another line, the last word must be able to break across lines.

All text must be black and have a blue shadow, such that the text appears to glow blue.

The text must look like the following:

Hello

You need to complete the CSS3 style.

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

```
<style>
```

```
p {
```

```
}
```

```
</style>
```

Hot Area:

```
<style>
```

```
  p {
```

text-decoration: wavy;
text-decoration-style: wavy;
text-shadow: blue 1px 1px 1px;
text-shadow: blue 1px 1px 1px 2px;

hyphens: auto;
break-after: auto;
break-inside: auto;
text-decoration: solid;

```
}
```


```
</style>
```


Correct Answer:

```

<style>

  p {

    
    text-decoration: wavy;
    text-decoration-style: wavy;
    text-shadow: blue 1px 1px 1px;
    text-shadow: blue 1px 1px 1px 2px;

    
    hyphens: auto;
    break-after: auto;
    break-inside: auto;
    text-decoration: solid;

  }

</style>

```

Section: (none)

Explanation

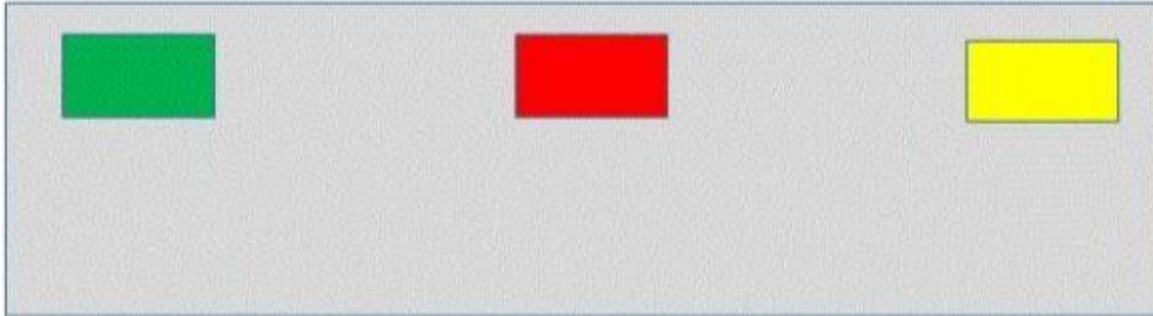
Explanation/Reference:

QUESTION 146

You are developing a web page.

The webpage must display a container. The container must display three colored rectangles near the top of the container. The colored rectangles are, in order, green, red, and yellow. The rectangles are aligned horizontally and evenly spaced across the width of the container.

The layout of the page must resemble the following image:



You need to ensure that the page renders properly.

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

```
<style>
  .box {
    display: -ms-flexbox;
    -ms-flex-direction: row;

    -ms-flex-align: ;

    -ms-flex-pack: ;

    width: 550px;
    height: 400px;
  }
</style>
```

Hot Area:

```
<style>
  .box {
    display: -ms-flexbox;
    -ms-flex-direction: row;

    -ms-flex-align: ;

    -ms-flex-pack: ;

    width: 550px;
    height: 400px;
  }
</style>
```

end
start
center
stretch

end
start
center
stretch

Correct Answer:

```
<style>
  .box {
    display: -ms-flexbox;
    -ms-flex-direction: row;

    -ms-flex-align: ;

    -ms-flex-pack: ;

    width: 550px;
    height: 400px;
  }
</style>
```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 147

You create the following JavaScript code:

```

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

```

You must complete the ShowCanWeAfford() function:

Display the message Denied! If the PaymentAmount variable is greater than 500.

Display the message Approved! If the PaymentAmount variable is less than 300.

Display the message Approved with caution! If the PaymentAmount variable is less than 500 and greater than 300.

You need to add statements to the ShowCanWeAfford() JavaScript function to meet the requirements.

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

Select and Place:

Answer Area

```
else if (this.PaymentAmount == 300) {  
    alert('Approved!');  
}
```

```
else if (this.PaymentAmount > 500 &&  
this.PaymentAmount < 300) {  
    alert('Approved with caution!');  
}
```

```
else if (this.PaymentAmount < 300) {  
    alert('Approved!');  
}
```

```
if (this.PaymentAmount > 500) {  
    alert('Denied!');  
}
```

```
if (this.PaymentAmount >= 500) {  
    alert('Denied!');  
}
```

```
else {  
    alert('Approved with caution!');  
}
```

```
if (this.PaymentAmount >> 500) {  
    alert('Denied!');  
}
```

```
else if (this.PaymentAmount << 300) {  
    alert('Approved!');  
}
```

Correct Answer:

```
else if (this.PaymentAmount == 300) {  
    alert('Approved!');  
}
```

```
if (this.PaymentAmount > 500) {  
    alert('Denied!');  
}
```

```
if (this.PaymentAmount >= 500) {  
    alert('Denied!');  
}
```

```
if (this.PaymentAmount >> 500) {  
    alert('Denied!');  
}
```

```
else if (this.PaymentAmount << 300) {  
    alert('Approved!');  
}
```

Answer Area

```
else if (this.PaymentAmount > 500 &&  
this.PaymentAmount < 300) {  
    alert('Approved with caution!');  
}
```

```
else if (this.PaymentAmount < 300) {  
    alert('Approved!');  
}
```

```
else {  
    alert('Approved with caution!');  
}
```

Section: (none)

Explanation

Explanation/Reference:

Note:

Use > for greater than comparison.

Use < for less than comparison.

QUESTION 148

You have a webpage that includes the following markup:

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

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

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

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

The solution must work on both modern and older browsers.

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

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

Select and Place:

Answer Area

```
document.getElementById("to").innerHTML =
    xmlDoc.getElementsByTagName("to")
[0].childNodes[0].nodeValue;
document.getElementById("from").innerHTML =
    xmlDoc.getElementsByTagName("from")
[0].childNodes[0].nodeValue;
document.getElementById("message").innerHTML
=
    xmlDoc.getElementsByTagName("body")
[0].childNodes[0].nodeValue;}
```

```
xmlhttp = new ActiveXObject
("Microsoft.XMLHTTP");}
```

```
else {
```

```
xmlhttp = new XMLHttpRequest();}
```

```
xmlhttp.open("GET", "message.xml", false);
```

```
if (window.XMLHttpRequest) {
```

```
xmlDoc = xmlhttp.responseXML;
```

```
function readXMLFile() {
```

```
xmlhttp.send();
```

Correct Answer:

```
document.getElementById("to").innerHTML =  
    xmlDoc.getElementsByTagName("to")  
[0].childNodes[0].nodeValue;  
document.getElementById("from").innerHTML =  
    xmlDoc.getElementsByTagName("from")  
[0].childNodes[0].nodeValue;  
document.getElementById("message").innerHTML  
=  
    xmlDoc.getElementsByTagName("body")  
[0].childNodes[0].nodeValue;
```

```
function readXMLFile() {
```

Answer Area

```
if (window.XMLHttpRequest) {
```

```
xmlhttp = new XMLHttpRequest();
```

```
else {
```

```
xmlhttp = new ActiveXObject  
("Microsoft.XMLHTTP");}
```

```
xmlhttp.open("GET", "message.xml", false);
```

```
xmlhttp.send();
```

```
xmlDoc = xmlhttp.responseXML;
```


Section: (none)

Explanation

Explanation/Reference:

Parse an XML Document

Example. The following code fragment parses an XML document into an XML DOM object:

```
if (window.XMLHttpRequest)
{
    // code for IE7+, Firefox, Chrome, Opera, Safari
    xmlhttp=new XMLHttpRequest();
}
else
{
    // code for IE6, IE5
    xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
}
xmlhttp.open("GET","books.xml",false);
xmlhttp.send();
xmlDoc=xmlhttp.responseXML;
```

QUESTION 149

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

```

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

```

You need to ascertain how the webpage responds when it loads and how it reacts to user actions.

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

Hot Area:

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

Correct Answer:

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 150

You test a webpage that contains the following JavaScript code:

```

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

The webpage also contains the following markup

```

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

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

For each statement in the table, select Yes if the action causes the webpage to behave as described. Select No if it does not. Make only one selection in each column.

Hot Area:

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

Correct Answer:

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 151

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 type="radio"/>	An error will be thrown
<input type="radio"/>	<input type="radio"/>	Contoso
<input type="radio"/>	<input type="radio"/>	undefined
<input type="radio"/>	<input type="radio"/>	null
<input type="radio"/>	<input type="radio"/>	false

Correct Answer:

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 152

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

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

You have the following requirements:

Display a message if users select the first OPTION element, and then submit the form.

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

You need to implement the madeSelection() function.

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

```
function makeSelection(element, message) {  
      
    alert(message);  
      
      
} else {  
      
}  
}
```

Hot Area:


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

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

```
    alert(message);
```

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

return true;
return false;

```
    } else {
```

return true;
return false;

```
    }
```

Correct Answer:

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

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

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

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

Explanation

Explanation/Reference:

QUESTION 153

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

The web service returns the current exchange rate.

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

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

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

    $.({

      cache:,

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

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

Hot Area:

```

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

        $.<div data-bbox="348 185 420 262" data-label="Form">
            <input type="text" value="ajax"/>
            <input type="text" value="json"/>
        </div>
        ((

        cache:<div data-bbox="391 281 466 356" data-label="Form">
            <input type="text" value="true"/>
            <input type="text" value="false"/>
        </div>
        ,

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

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

```

Correct Answer:

```

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

        $.<div data-bbox="348 185 418 262" data-label="Form">
            <input type="text" value=""/>
            <div data-bbox="348 218 418 262" data-label="Form">
                <div data-bbox="348 218 418 238" data-label="Text">ajax</div>
                <div data-bbox="348 238 418 262" data-label="Text">json</div>
            </div>

        cache:<div data-bbox="390 282 465 356" data-label="Form">
            <input type="text" value=""/>
            <div data-bbox="390 312 465 356" data-label="Form">
                <div data-bbox="390 312 465 332" data-label="Text">true</div>
                <div data-bbox="390 332 465 356" data-label="Text">false</div>
            </div>
        ,

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

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

```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 154

You develop a webpage.

The layout of the webpage must resemble the following image:

Start of main contents. Start of
span1 contents. End of span1
contents. End of main body
contents.

Span2
contents

You need to ensure that the page renders properly.

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

```

<!DOCTYPE html>
<head>
  <style>

    #span1 { ; color: red;}

    #span2 { ; top: 200px;
      left: -100px; height: 130px; width: 130px;
      color: green;}
  </style>
</head>
<body>
  <p>Start of main contents.
    <span id=span1> Start of span1 contents.
    <span id=span2> Span2 contents.</span>
    End of span1 contents.</span>
    End of main contents.
  </p>
</body>
</html>

```

Hot Area:

```

<!DOCTYPE html>
<head>
  <style>

    #span1 {  ; color: red;}
              z-index: 1
              float: left
              position: relative
              position: absolute

    #span2 {  ; top: 200px;
              z-index: 2
              float: right
              position: relative
              position: absolute


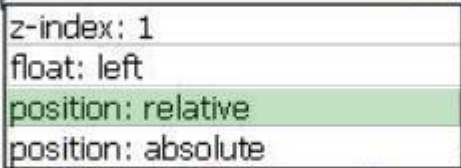
              left: -100px; height: 130px; width: 130px;
              color: green;}
  </style>
</head>
<body>
  <p>Start of main contents.
    <span id=span1> Start of span1 contents.
    <span id=span2> Span2 contents.</span>
    End of span1 contents.</span>
    End of main contents.
  </p>
</body>
</html>


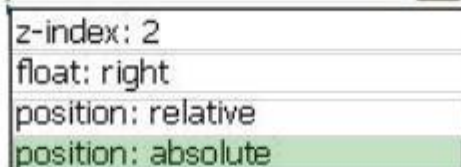
```

Correct Answer:


```

<!DOCTYPE html>
<head>
  <style>

    #span1 {  ; color: red;}
              
              z-index: 1
              float: left
              position: relative
              position: absolute

    #span2 {  ; top: 200px;
              
              z-index: 2
              float: right
              position: relative
              position: absolute

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

```

Section: (none)
Explanation

Explanation/Reference:

QUESTION 155

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

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

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

```

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

if (webReq.[ ] == [ ] ) {

    if (webReq.status == [ ] ) {

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



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


```

Hot Area:

```

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

if (webReq.  ==  ) {

if (webReq.status ==  ) {

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

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

```

Correct Answer:

```

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

      if (webReq.  ==  ) {
        

|            |
|------------|
| abort      |
| open       |
| status     |
| readyState |



|       |
|-------|
| false |
| true  |
| 2     |
| 3     |
| 4     |



        if (webReq.status ==  ) {
          

|     |
|-----|
| 100 |
| 200 |
| 400 |
| 500 |



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

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

```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 156

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

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

You need to implement an API for the shared library.

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

Select and Place:

Answer Area

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

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

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

```
}
```

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

```
function getFormatter() {
```

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

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

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


Correct Answer:

Answer Area

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

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

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

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

```
function getFormatter() {
```

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

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

```
}
```

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

Section: (none)**Explanation****Explanation/Reference:**

* Here there is a basic example:

```
// our constructor
function Person(name, age){
    this.name = name;
    this.age = age;
};

// prototype assignment
Person.prototype = (function(){

    // we have a scope for private stuff
    // created once and not for every instance
    function toString(){
        return this.name + " is " + this.age;
    };

    // create the prototype and return them
    return {

        // never forget the constructor ...
        constructor: Person,

        // "magic" toString method
        toString: function(){

            // call private toString method
            return toString.call(this);
        }
    };
})();
```

* Example:

You can simulate private methods like this:

```
function Restaurant() {
```

```

}

Restaurant.prototype = (function() {
  var private_stuff = function() {
    // Private code here
  };

  return {

    constructor: Restaurant,

    use_restroom: function() {
      private_stuff();
    }

  };
})();

var r = new Restaurant();

// This will work:
r.use_restroom();

// This will cause an error:
r.private_stuff();

```

QUESTION 157

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

```

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

```

You need to control the speed of the rotating rectangle.

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

```

<script>
  var squareShape;
  var myTimer;

  function startAnimation () {

    squareShape=
    squareShape.currentTheta = 0;

    myTimer=
    animateImage();
  }

  function animateImage() {

    + squareShape.currentTheta + " " );
    squareShape.currentTheta += 0.1;

  }
</script>

```

Hot Area:

```

<script>
  var squareShape;
  var myTimer;

  function startAnimation () {

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

    squareShape.currentTheta = 0;

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

    animateImage();
  }

  function animateImage() {

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

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

```

Correct Answer:

```

<script>
  var squareShape;
  var myTimer;

  function startAnimation () {

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

    squareShape.currentTheta = 0;

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

    animateImage();
  }

  function animateImage() {

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

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

```


Section: (none)**Explanation****Explanation/Reference:**

Note:

* What is SVG?

SVG stands for Scalable Vector Graphics
SVG is used to define vector-based graphics for the Web
SVG defines the graphics in XML format
SVG graphics do NOT lose any quality if they are zoomed or resized
Every element and every attribute in SVG files can be animated
SVG is a W3C recommendation

* Example:

<script>

```
/* CONSTANTS */
var initialTheta = 0; // The initial rotation angle, in degrees.
var thetaDelta = 0.3; // The amount to rotate the square every "delay" milliseconds, in degrees.
var delay = 10; // The delay between animation stills, in milliseconds. Affects animation smoothness.
var angularLimit = 90; // The maximum number of degrees to rotate the square.
```

```
/*
  Note that it will take the square (angularLimit/thetaDelta)*delay milliseconds to rotate an angularLimit
  number of degrees. For example, (90/0.3)*10 = 3000 ms (or 3 seconds) to rotate the square 90 degrees.
*/
```

```
/* GLOBALS */
var theSquare; // Will contain a reference to the square element, as well as other things.
var timer; // Contains the setInterval() object, used to stop the animation.
```

```
function init()
/*
  Assumes that this function is called after the page loads.
*/
{
  theSquare = document.getElementById("mySquare"); // Set this custom property after the page loads.
  theSquare.currentTheta = initialTheta; // The initial rotation angle to use when the animation starts, stored in
  timer = setInterval(doAnim, delay); // Call the doAnim() function every "delay" milliseconds until "timer" is cleared.
}
```

```

function doAnim()
/*
  This function is called by setInterval() every "delay" milliseconds.
*/
{
  if (theSquare.currentTheta > angularLimit)
  {
    clearInterval(timer); // The square has rotated enough, instruct the browser to stop calling the doAnim() function.
    return; // No point in continuing; stop now.
  }

  theSquare.setAttribute("transform", "rotate(" + theSquare.currentTheta + ")"); // Rotate the square by a small amount.
  theSquare.currentTheta += thetaDelta; // Increase the angle that the square will be rotated to, by a small amount.
}
</script>
</head>

```

QUESTION 158

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

```

01  <!DOCTYPE html>
02  <html>
03    <head>
04      <script src="jquery.js"></script>
05    </head>
06    <body>
07      <p>Type OK to validate form.</p>
08      <form action="javascript:alert('success!');">
09        <div>
10          <input type="text" />
11          <input type="submit" />
12        </div>
13      </form>
14      <script>
15
16      </script>
17    </body>
18  </html>

```

You need to ensure that a form cannot be submitted unless the INPUT element contains the word OK.

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

Select and Place:

| | Answer Area |
|--|-------------|
| <code>);</code> | |
| <code>\$("#form").submit(function () {</code> | |
| <code>return false;</code>
<code>}</code> | |
| <code>return true;</code>
<code>}</code> | |
| <code>if (\$("#input:first_child").val() == "OK") {</code> | |
| <code>if (\$("#input:first").val() == "OK") {</code> | |

Correct Answer:

| Answer Area | |
|--|--|
| | <code>\$("form").submit(function () {</code> |
| | <code>if (\$("#input:first").val() == "OK") {</code> |
| | <code>return true;</code> |
| | <code>}</code> |
| | <code>return false;</code> |
| | <code>}</code> |
| <code>if (\$("#input:first_child").val() == "OK") {</code> | <code>};</code> |

Section: (none)

Explanation

Explanation/Reference:

QUESTION 159

You are implementing a web worker by using JavaScript and HTML5. The web worker processes a long-running loop and returns the result to a webpage.

The web worker is defined on the webpage as follows:

```
var myWorker = new Worker('task.js');
myWorker.postMessage({
  message: 'go',
  iterations: 1000000000
});
```

You have the following requirements:

Evaluate the message value in the web worker.

Process the loop based on the iterations value that is passed from the webpage.

Return a value back to the webpage from the web worker.

You need to implement the web worker.

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

Select and Place:

| | Answer Area |
|--|---|
| <div>event.data.message</div> <div>event.data.iterations</div> <div>event[message]</div> <div>event[iterations]</div> <div>postMessage(returnValue);</div> <div>relayMessage(returnValue);</div> | <pre>onmessage = function (event) {
 if (<input type="text"/> === 'go')
 {
 for (var i = 0; i <= <input type="text"/> ; i += 1) {
 var returnValue = i;
 }
 <input type="text"/>
 }
};</pre> |

Correct Answer:

event[message]

event[iterations]

relayMessage(returnValue);

Answer Area

```
onmessage = function (event) {  
    if ( event.data.message === 'go')  
    {  
        for (var i = 0; i <= event.data.iterations ; i += 1) {  
            var returnValue = i;  
        }  
        postMessage(returnValue);  
    }  
};
```

Section: (none)

Explanation

Explanation/Reference:

Note:

* The event object for a message event supports the following additional properties:

the data property contains the message,
the origin property retrieves the scheme, hostname and port of the document that invoked the postMessage method,
the source property refers to the window object that contains the document that invoked the postMessage method,
the lastEventId property returns the identifier of the last message.

QUESTION 160

```

<!DOCTYPE html>
<html>
  <head>
    <style type="text/css">
      .container {
        display: -ms-grid;
        -ms-grid-columns: 1fr 1fr 1fr;
        -ms-grid-rows: 1fr 1fr 1fr;
      }
      .blueBox {
        -ms-grid-row: 2;
        -ms-grid-column: 2;
        -ms-wrap-flow: auto;
        float: none;
        background-color: blue;
      }
      .text {
        -ms-grid-row: 1;
        -ms-grid-column: 1;
        -ms-grid-column-span: 3;
        -ms-grid-row-span: 3;
      }
    </style>
  </head>
  <body>
    <div class="body">
      <div name="container" class="container">

```

How does the page render? For each statement in the table, select Yes if the behavior is described. Select No if it is not. Make only one selection in each column.

Hot Area:

| Yes | No | |
|-----------------------|-----------------------|--|
| <input type="radio"/> | <input type="radio"/> | Content in the DIV element named content flows around all sides of the DIV element named blueBox . |
| <input type="radio"/> | <input type="radio"/> | The DIV element named blueBox will always be displayed at row 2, column 2 of the grid. |
| <input type="radio"/> | <input type="radio"/> | Content in the DIV element named content will fill all cells in the grid. |

Correct Answer:

| Yes | No | |
|----------------------------------|----------------------------------|--|
| <input type="radio"/> | <input checked="" type="radio"/> | Content in the DIV element named content flows around all sides of the DIV element named blueBox . |
| <input checked="" type="radio"/> | <input type="radio"/> | The DIV element named blueBox will always be displayed at row 2, column 2 of the grid. |
| <input checked="" type="radio"/> | <input type="radio"/> | Content in the DIV element named content will fill all cells in the grid. |

Section: (none)

Explanation

Explanation/Reference:

QUESTION 161

You are creating a function by using JavaScript.

You have the following requirements:

The function must display loan amounts to the user within the following HTML element:

```
<div id="display"></div>
```

The loan amount of 2100 must display in the HTML element.

All declared variables and functions must be scoped to the myApp variable.

You need to implement the function.

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

Select and Place:

	Answer Area
<div>this.loanAmount += 1000;</div> <div>this.loanAmount = 100;</div> <div>loanAmount = 100;</div> <div>loanAmount += 1000;</div> <div>myApp.loanAmount</div> <div>loanAmount</div>	<pre>var myApp = {}; (function () { this.display = function (value) { document.getElementById('display').innerHTML += value; }; this.increaseLoanAmount = function () { return; }; this.increaseLoanAmountAgain = function () { return; }; }).apply(myApp); myApp.increaseLoanAmount(); myApp.increaseLoanAmountAgain(); myApp.display();</pre>

Correct Answer:

	Answer Area
<div>this.loanAmount += 1000;</div> <div>this.loanAmount = 100;</div> <div>loanAmount = 100;</div> <div>loanAmount += 1000;</div> <div>myApp.loanAmount</div> <div>loanAmount</div>	<pre> var myApp = {}; (function () { this.loanAmount = 100; this.display = function (value) { document.getElementById('display').innerHTML += value; }; this.increaseLoanAmount = function () { this.loanAmount += 1000; return; }; this.increaseLoanAmountAgain = function () { this.loanAmount += 1000; return; }; }).apply(myApp); myApp.increaseLoanAmount(); myApp.increaseLoanAmountAgain(); myApp.display(myApp.loanAmount); </pre>

Section: (none)

Explanation

Explanation/Reference:

QUESTION 162

A box with rounded corners must appear around text. The box must match the following illustration:

Hello

You need to add the CSS3 markup to your style.

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

```
<style>
  p {
    border: solid;

  }
</style>
```

Hot Area:

```

<style>
  p {
    border: solid;

    display: inline;
    box-sizing: border-box;
    box-shadow: 10px 10px 10px #f00;
    box-shadow: 4px 4px 4px #f00;

    border-radius: 10px;
    border-spacing: 10px;
    border-bottom-style: outset;
    box-decoration-break: slice;

  }
</style>

```

Correct Answer:

```

<style>
  p {
    border: solid;



display: inline;



box-sizing: border-box;



box-shadow: 10px 10px 10px #f00;



box-shadow: 4px 4px 4px #f00;



border-radius: 10px;



border-spacing: 10px;



border-bottom-style: outset;



box-decoration-break: slice;



}



/style>



Section: (none)



Explanation



Explanation/Reference:



### QUESTION 163



You are creating a custom CSS3 style.



You have the following requirements to complete the style:



Box1 has a red outline.



Box1 contains box2, and box2 must remain inside box1



Box2 must have a green to black gradient.



www.vceplus.com - Website designed to help IT pros advance their careers.


```

Box2 must be surrounded by white space.

The style resembles the following diagram:



You need to add the CSS3 code to the styles.

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

```
<style>
  #box1
  {
    
  }

  #box2
  {
    width: 6em;
    height: 4em;
    position: absolute;
    
    
  }
</style>
```

Hot Area:

```
<style>
  #box1
  {
```

margin: 5em; border: 1px solid #f00;
margin: 5em; border-color: red;
margin: 10px 10px 10px 10px; color: red;
margin: 10px 10px 10px 10px; border-style: solid;

```
}
```

```
#box2
{
  width: 6em;
  height: 4em;
  position: absolute;
```

background-image: linear-gradient(to bottom, green, black);
background-image: linear-gradient(to top, green, black);
background-image: radial-gradient(to bottom, green, black);
background-image: radial-gradient(to top, green, black);

margin: 0px 0px 0px 0px;
margin: 10px 10px 10px 10px;
padding: 0px 0px 0px 0px;
padding: 10px 10px 10px 10px;

```

}
</style>
```

Correct Answer:


```
<style>
  #box1
  {
```

margin: 5em; border: 1px solid #f00;
margin: 5em; border-color: red;
margin: 10px 10px 10px 10px; color: red;
margin: 10px 10px 10px 10px; border-style: solid;

```
}
```

```
#box2
{
  width: 6em;
  height: 4em;
  position: absolute;
```

background-image: linear-gradient(to bottom, green, black);
background-image: linear-gradient(to top, green, black);
background-image: radial-gradient(to bottom, green, black);
background-image: radial-gradient(to top, green, black);

margin: 0px 0px 0px 0px;
margin: 10px 10px 10px 10px;
padding: 0px 0px 0px 0px;
padding: 10px 10px 10px 10px;

```

}
</style>
```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 164

You are validating user input by using built-in JavaScript functions.

The application must:

Store the value that is entered in a variable named inputValue

Use the built-in isNaN(inputValue) function to evaluate the data type

You need to validate the return value of the isNaN(inputValue) function.

Which values will be returned? (To answer, configure the appropriate options in the dialog box in the answer area.)

If user inputs:

-13 `isNaN(userInput)` returns

24.3 `isNaN(userInput)` returns

3*8 `isNaN(userInput)` returns

'5' `isNaN(userInput)` returns

Hot Area:

If user inputs:

-13 `isNaN(userInput)` returns

True
False

24.3 `isNaN(userInput)` returns

True
False

3*8 `isNaN(userInput)` returns

True
False

'5' `isNaN(userInput)` returns

True
False

Correct Answer:

If user inputs:

-13 `isNaN(userInput)` returns

True
False

24.3 `isNaN(userInput)` returns

True
False

3*8 `isNaN(userInput)` returns

True
False

'5' `isNaN(userInput)` returns

True
False

Section: (none)

Explanation

Explanation/Reference:

QUESTION 165

You are developing an HTML5 web application that will display encyclopedia entries.

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

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

What should you do? (To answer, drag the appropriate HTML tag to the correct element. Each tag 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:

title

figcaption

label

aside

figure

cite

```
<[ ]>  
  
<[ ]>  
Image description  
<[/[ ]>  
<[/[ ]>
```

Correct Answer:

The interface shows a list of HTML5 semantic elements on the left: title, figcaption, label, aside, figure, and cite. On the right, a code editor displays the following HTML structure:

```

<figure>
  
  <figcaption>
    Image description
  </figcaption>
</figure>

```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 166

You develop a website for a company by using HTML5.

You have the following requirements:

Allow multiple news postings per page under the title "Welcome to the Semantic Web!".

Search engines must be able to index individual news postings.

News postings must be styled by using the following CSS markup:

```
.posting { line-height: 150%; }
```

You need to structure the markup for each individual news posting.

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

Select and Place:

Answer Area

< [] >

< [] >

Welcome to the Semantic Web!

</ [] >

< [] >

...

</ [] >

</ [] >

article

aside

body

div

div class="posting"

div id="posting"

head

header

Correct Answer:

article

aside

body

div

div class="posting"

div id="posting"

head

header

Answer Area

< article >

< header >

Welcome to the Semantic Web!

</ header >

< div class="posting" >

...

</ div >

</ article >

Section: (none)

Explanation

Explanation/Reference:

QUESTION 167

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.)

Work Area

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

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: (none)

Explanation

Explanation/Reference:

QUESTION 168

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

The form must capture the form elements as a string.

You need to implement this functionality.

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

Select and Place:

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

str = decodeURIComponent(str);

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

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

str = decodeURI(str);

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

Correct Answer:

The image shows a web browser window with a customer contact form on the left and its corresponding HTML code on the right. The form consists of two text input fields and a submit button. The code is an HTML document that includes jQuery and contains a form with an email input and a submit button. A JavaScript function is attached to the submit button, which serializes the form data, decodes the URI component, and returns true to prevent the default form submission.

```
str = $("form").contents.toString();
str = $("form").toLocaleString();
str = decodeURI(str);

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 169

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

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

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

What should you use?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/html/html5_form_input_types.asp

QUESTION 170

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

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

```

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

```

You need to authenticate to the WCF service.

What should you do?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 171

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

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

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

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

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

Which line of code should you insert at line 03?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://stackoverflow.com/questions/3352555/xhr-upload-progress-is-100-from-the-start>

QUESTION 172

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

```
<label id="txtValue"X/label>
```

Information from the web form is submitted to a web service. The web service returns the following JSON object.

```
{  
  "Confirmation": "1234",  
  "FirstName": "John"  
}
```

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

Which JavaScript code segment should you use?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://api.jquery.com/text/>

QUESTION 173

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

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

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

You need to add validation to the text box control.

Which HTML should you use?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/html5/att_input_required.asp

QUESTION 174

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

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

var loader = new Loader();

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

When the temperature is loaded, the status property on the loader instance does not change. You need to ensure that the status property on the loader instance is

updated when the temperature is loaded.

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

☐ A.

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

☐ B.

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

☐ C.

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

☐ D.

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

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 175

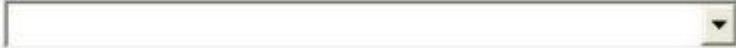
You implement a callback function by using JavaScript.

You need to process the returned XML data.

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


```

<script>
function getStatus(url, callback) {
    var httpRequest = new XMLHttpRequest();
    httpRequest.onreadystatechange = function () {
        if (httpRequest.readyState === 4
            && httpRequest.status === 200) {

        }
    };
    httpRequest.open('GET', url);
    httpRequest.send();
}

function start(url) {
    getStatus(url, function () {

    });
}
</script>

```

Hot Area:

```

<script>
function getStatus(url, callback) {
    var httpRequest = new XMLHttpRequest();
    httpRequest.onreadystatechange = function () {
        if (httpRequest.readyState === 4
            && httpRequest.status === 200) {

            callback.call(httpRequest);
            httpRequest.setRequestHeader();
            callback.call(httpRequest.responseXML);
            callback = httpRequest.getResponseHeader();

        }
    };
    httpRequest.open('GET', url);
    httpRequest.send();
}

function start(url) {
    getStatus(url, function () {


        processResults(this);
        processResults(url.callback);
        processResults(this.XMLHttpRequest());
        processResults(url.callback.responseXML);


    });
}
</script>

```

Correct Answer:


```

<script>
    function getStatus(url, callback) {
        var httpRequest = new XMLHttpRequest();
        httpRequest.onreadystatechange = function () {
            if (httpRequest.readyState === 4
                && httpRequest.status === 200) {
                
                callback.call(httpRequest);
                httpRequest.setRequestHeader();
                callback.call(httpRequest.responseXML);
                callback = httpRequest.getResponseHeader();
            }
        };
        httpRequest.open('GET', url);
        httpRequest.send();
    }

    function start(url) {
        getStatus(url, function () {
            
            processResults(this);
            processResults(url.callback);
            processResults(this.XMLHttpRequest());
            processResults(url.callback.responseXML);
        });
    }
</script>

```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 176

You review a webpage that contains the following markup:

```
<!DOCTYPE html>
<html>
  <head>
    <style type="text/css">
      .container {
        display: -ms-grid;
        -ms-grid-columns: 1fr 1fr 1fr;
        -ms-grid-rows: 1fr 1fr 1fr;
      }
      .blueBox {
        -ms-grid-row: 2;
        -ms-grid-column: 2;
        -ms-wrap-flow: auto;
        float:none;
        background-color: blue;
      }
      .text {
        -ms-grid-row: 1;
        -ms-grid-column: 1;
        -ms-grid-column-span: 3;
        -ms-grid-row-span: 3;
      }
    </style>
  </head>
  <body>
    <div class="body">
      <div name="container" class="container">
        <div name="blueBox" class="blueBox"></div>
        <div name="content" class="text"></div>
      </div>
    </div>
  </body>
</html>
```

How does the page render? For each statement in the table, select Yes if the behavior is described. Select No if it is not. Make only one selection in each column.

Hot Area:

Yes	No	
<input type="radio"/>	<input type="radio"/>	Content in the DIV element named content flows around all sides of the DIV element named blueBox .
<input type="radio"/>	<input type="radio"/>	The DIV element named blueBox will always be displayed at row 2, column 2 of the grid.
<input type="radio"/>	<input type="radio"/>	Content in the DIV element named content will fill all cells in the grid.

Correct Answer:

Yes	No	
<input type="radio"/>	<input checked="" type="radio"/>	Content in the DIV element named content flows around all sides of the DIV element named blueBox .
<input checked="" type="radio"/>	<input type="radio"/>	The DIV element named blueBox will always be displayed at row 2, column 2 of the grid.
<input checked="" type="radio"/>	<input type="radio"/>	Content in the DIV element named content will fill all cells in the grid.

Section: (none)

Explanation

Explanation/Reference:

QUESTION 177

You create an HTML5 application that includes JavaScript. The application performs several AJAX requests. One AJAX request retrieves order information from a web service and then sends the information back to a webpage within the application.

You must create a custom event. You have the following requirements:

The webpage must contain an HTML element named ordersListing that will receive the custom event notification.

The event name must be ordersReceived.

The event must pass a custom value named orderCount.

The event must run a JavaScript method named showOrdersReceivedCount after the orders Listing HTML element receives the event.

Do not allow other DOM elements to receive the event.

Allow the event to be cancelled.

Send the event into the event system.

You need to implement the custom event to notify specific DOM elements of the AJAX response.

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

Select and Place:

Answer Area

```
ordersListing.dispatchEvent(new CustomEvent  
("ordersReceived", {  
  detail: {  
    orderCount: 5  
  },  
  bubbles: false,  
  cancelable: true  
}));
```

```
var ordersReceivedEvent = new CustomEvent  
("ordersReceived", {  
  bubbles: true,  
  cancelable: true  
});
```

```
ordersListing.addEventListener  
("orders", showOrders);
```

```
ordersReceived.dispatchEvent  
(ordersReceivedEvent);
```

```
var ordersReceived = document.getElementById  
("ordersReceived");
```

```
var ordersListing = document.getElementById  
("ordersListing");
```

```
ordersListing.addEventListener  
("ordersReceived", showOrdersReceivedCount);
```

```
ordersListing.dispatchEvent(new CustomEvent  
("ordersReceived", {  
  detail: {  
    orderCount: 5
```

Correct Answer:

Answer Area

```
ordersListing.dispatchEvent(new CustomEvent(
  "ordersReceived", {
    detail: {
      orderCount: 5
    },
    bubbles: false,
    cancelable: true
  }));
```

```
ordersListing.addEventListener(
  "ordersReceived", showOrdersReceivedCount);
```

```
ordersReceived.dispatchEvent(
  ordersReceivedEvent);
```

```
var ordersReceivedEvent = new CustomEvent(
  "ordersReceived", {
    bubbles: true,
    cancelable: true
  });
```

```
ordersListing.addEventListener(
  "orders", showOrders);
```

```
var ordersReceived = document.getElementById(
  "ordersReceived");
```

```
var ordersListing = document.getElementById(
  "ordersListing");
```

```
ordersListing.dispatchEvent(new CustomEvent(
  "ordersReceived", {
    detail: {
      orderCount: 5
```

Section: (none)**Explanation****Explanation/Reference:**

Note:

* From Scenario: Do not allow other DOM elements to receive the event.

So: bubbles: false

* From scenario: Allow the event to be cancelled.

So: cancellable: true

* From scenario:

The webpage must contain an HTML element named ordersListing that will receive the custom event notification.

* Events which are designated as bubbling will initially proceed with the same event flow as non-bubbling events. The event is dispatched to its target EventTarget and any event listeners found there are triggered. Bubbling events will then trigger any additional event listeners found by following the EventTarget's parent chain upward, checking for any event listeners registered on each successive EventTarget. This upward propagation will continue up to and including the Document. EventListeners registered as capturers will not be triggered during this phase. The chain of EventTargets from the event target to the top of the tree is determined before the initial dispatch of the event. If modifications occur to the tree during event processing, event flow will proceed based on the initial state of the tree.

* Ajax (an acronym for Asynchronous JavaScript and XML) is a group of interrelated web development techniques used on the client-side to create asynchronous web applications. With Ajax, web applications can send data to, and retrieve data from, a server asynchronously (in the background) without interfering with the display and behavior of the existing page. Data can be retrieved using the XMLHttpRequest object. Despite the name, the use of XML is not required (JSON is often used instead), and the requests do not need to be asynchronous

QUESTION 178

You are developing an application by using JavaScript.

You must write a function that returns the sum of the variables named v1, v2, v3, v4.

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:

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:

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 179

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

```

<input name="ITSupport" type="checkbox" value="IT" id="choc"
  onclick="enable();" /><label for="IT">IT Support</label>
<input type="email" placeholder="IT@Contoso.com" id="eMail"
  name="eMail" disabled /><label for="eMail" >Your eMail </label>

```

You need to ensure that the email element is enabled only if the user selects the IT Support check box.

Which CSS selectors should you use? (To answer, drag the appropriate selector to the correct location. Each selector 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:

enabled

disabled

hidden

true

false

set

```
input: {
  background-color: #e0e0e0;
}

<script type="text/javascript">
  function enable(e) {
    if (document.getElementById(e) {
      if (document.getElementById('IT').checked) {
        document.getElementById('eMail'). = ;
      } else {
        document.getElementById('eMail'). = ;
      }
    }
  }
</script>
```

Correct Answer:

enabled

disabled

hidden

true

false

set

```

input: {
  background-color: #e0e0e0;
}

<script type="text/javascript">
  function enable(e) {
    if (document.getElementById) {
      if (document.getElementById('IT').checked) {
        document.getElementById('eMail').disabled = false;

      } else {
        document.getElementById('eMail').disabled = true;

      }
    }
  }
</script>

```

Section: (none)

Explanation

Explanation/Reference:

QUESTION 180

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

```

<div id="MapContents"></div>


```

You need to update the content of the DIV element when the mouse hovers over an image and when the mouse coordinates change.

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

Select and Place:

	Answer Area
innerHTML	<pre>var contents = document.getElementById("MapContents"); var image = document.getElementById("UsMap"); image.addEventListener(' ', function (e) { contents. = "x: " + e.x + "
y: " + e.y + "
"; });</pre>
mousemove	
mouseout	
mouseover	
nodeValue	
outerText	

Correct Answer:

	Answer Area
	<pre>var contents = document.getElementById("MapContents"); var image = document.getElementById("UsMap"); image.addEventListener(' mousemove ', function (e) { contents. innerHTML = "x: " + e.x + "
y: " + e.y + "
"; });</pre>
mouseout	
mouseover	
nodeValue	
outerText	

Section: (none)

Explanation

Explanation/Reference:

QUESTION 181

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: (none)

Explanation

Explanation/Reference:

Reference:

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

QUESTION 182

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?

☐ A.

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

☐ B.

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

☐ C.

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

☐ 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: (none)

Explanation

Explanation/Reference:

QUESTION 183

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?

☐ A.

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

function ShowRate() {
  alert(stockRate);
}
```

☐ B.

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

function ShowRate() {
  alert(stockRate);
}
```

☐ C.

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

function ShowRate() {
  alert(stockRate);
}
```

☐ D.

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

function ShowRate() {
  alert(stockRate);
}
```

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 184

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: (none)

Explanation

Explanation/Reference:

QUESTION 185

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: (none)

Explanation

Explanation/Reference:

Use `==` to test for equality.

Use `"300"` to test for the string.

QUESTION 186

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: (none)

Explanation

Explanation/Reference:

QUESTION 187

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: (none)

Explanation

Explanation/Reference:

QUESTION 188

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?

☐ A.

```
Employee.apply.GetPayroll() = function()  
{  
    alert("payroll");  
}
```

☐ B.

```
Employee.prototype.GetPayroll = function Employee.GetPayroll()  
{  
    alert("payroll");  
}
```

☐ C.

```
Employee.GetPayroll() = function(){  
    alert("payroll");  
}
```

☐ D.

```
Employee.prototype.GetPayroll = function()  
{  
    alert("payroll");  
}
```

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 189

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: (none)

Explanation

Explanation/Reference:

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 190

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: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/cssref/pr_text_text-transform.asp none,capitalize,uppercase,lowercase and inherit

Example

Transform text in different elements:

h1 {text-transform:uppercase;}

h2 {text-transform:capitalize;}

p {text-transform:lowercase;}

QUESTION 191

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

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 192

You need to ensure that the navigation requirements for displaying news items are met.

Which code segment should you insert at line NP04?

- A. `nav.navigate("/html/newsPage.html");`
- B. `nav.navigate ("/html/newsItem.html", {item: item});`
- C. `nav.forward ("/html/newsItem.html");`
- D. `nav.forward("/html/newsPage.html", {item: item});`

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

WinJS.Navigation.navigate function (Windows)

QUESTION 193

You need to implement the code to meet the requirements for displaying content from search results.

Which code segment should you insert at line NP19?

- ☐ A. `if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.search) {
 var id = FindNewsId(detail.arguments);`
- ☐ B. `if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.search) {
 var id = FindNewsId(detail.queryText);`
- ☐ C. `if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {
 var id = FindNewsId(detail.queryText);`
- ☐ D. `if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {
 var id = FindNewsId(detail.arguments);`

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

onactivated event (Windows)

ActivationKind enumeration (Windows)

QUESTION 194

You need to ensure that the requirements for capturing user input on the newsItem.html page are met.

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

Choose all that apply.)

- A. InkManager.mode = Windows.UI.Input.Inking.InkManipulationMode.selecting;
- B. InkManager.mode = Windows.UI.Input.Inking.InkRecognitionTarget.selected;
- C. InkManager.mode = Windows.UI.Input.Inking.InkManipulationMode.inking;
- D. InkManager.mode = Windows.UI.Input.Inking.InkRecognitionTarget.all;

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

InkManipulationMode enumeration (Windows)

InkRecognitionTarget enumeration (Windows)

QUESTION 195

You need to ensure that the layout for newsPage.html meets the requirements.

Which layout should you choose?

☐ A.

```
#MyFlexbox {  
  display: -ms-grid;  
  background: gray;  
  border: blue;  
  -ms-grid-columns: auto;  
}
```

☐ B.

```
#MyFlexbox {  
  display: -ms-flexbox;  
  background: gray;  
  border: blue;  
  -ms-flex-wrap: wrap;  
}
```

☐ C.

```
#MyFlexbox{  
  display: -ms-flexbox;  
  background: gray;  
  border: blue;  
  -ms-flex-align:stretch;  
}
```

☐ D.

```
#MyFlexbox {  
  display: -ms-inline-grid;  
  background: gray;  
  border: blue;  
  -ms-grid-columns: auto;  
}
```

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

flex-wrap property (Windows)

QUESTION 196

You need to ensure that employees are authenticated across public networks according to the requirements.

Which code segment should you insert at line GC04?

- ☐ A.

```
option.authenticationProtocol =  
    Windows.Security.Credentials.UI.AuthenticationProtocol.negotiate;
```
- ☐ B.

```
option.authenticationProtocol =  
    Windows.Security.Credentials.UI.AuthenticationProtocol.basic;
```
- ☐ C.

```
option.authenticationProtocol =  
    Windows.Security.Credentials.UI.AuthenticationProtocol.digest;
```
- ☐ D.

```
option.authenticationProtocol =  
    Windows.Security.Credentials.UI.AuthenticationProtocol.custom;
```

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

D. Option D

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Incorrect:

B, C, D - Credentials are returned to the caller as plaintext.

A - Credentials are transformed before being returned to the caller.

AuthenticationProtocol enumeration (Windows)

QUESTION 197

You need to implement the requirements for sending news items to multiple contacts.

Which code segment should you use to replace the code in line EJ04?

- ☐ A.

```
var toEmail = "";
picker.pickSingleContactsAsync().then(function (contact) {
    contact.emails.forEach(function (email) {
        toEmail = toEmail.concat(email.value, ";");
    });
});
document.querySelector("#To").innerText = toEmail;
```
- ☐ B.

```
var toEmail = "";
picker.pickMultipleContactsAsync().then(function (contact) {
    contact.emails.forEach(function (email) {
        toEmail = toEmail.concat(email.value, ";");
    });
});
document.querySelector("#To").innerText = toEmail;
```
- ☐ C.

```
var toEmail = "";
picker.pickSingleContactsAsync().then(function (contacts) {
    contacts.forEach(function (contact) {
        toEmail = toEmail.concat(contact.emails[0].value, ";");
    });
});
document.querySelector("#To").innerText = toEmail;
```
- ☐ D.

```
var toEmail = "";
picker.pickMultipleContactsAsync().then(function (contacts) {
    contacts.forEach(function (contact) {
        toEmail = toEmail.concat(contact.emails[0].value, ";");
    });
});
document.querySelector("#To").innerText = toEmail;
```

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

ContactPicker.PickMultipleContactsAsync | pickMultipleContactsAsync method (Windows) Contact.Emails | emails property (Windows)

QUESTION 198

You need to ensure that the navigation requirements for displaying news items are met. Which code segment should you insert at line NP04?

- A. Windows.Devices.Enumeration
- B. Windows.Devices.Input
- C. Windows.Media.Devices
- D. Windows.UI.Input

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Windows.UI.Input namespace (Windows)

QUESTION 199

You need to implement the code to meet the requirements regarding the display of the newsPage.html page.

Which HTML element should you insert at line NH06?

- A. <h2 class="news-item-title win-type-ellipses" data-win-bind="textContent: title"></ h2>
- B. <h2 class="news-item-title win-type-large" data-win-bind="textContent: title"></h2>
- C. <h2 class="news-item-titlewin-type-xx-large" data-win-bind="textContent: title"></ h2>
- D. <h2 class="news-item-title win-type-x-large" data-win-bind="textContent: title"></ h2>

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

WinJS CSS classes for typography (Windows)

ListView.itemTemplate property (Windows)

QUESTION 200

You are designing the architecture for the app.

You need to ensure that the logical design fulfills the design pattern requirements.

Which type of object should you create?

- A. C# class library
- B. Windows Runtime components
- C. A single JavaScript file
- D. A separate JavaScript file for each page that contains a single enterprise service provider implementation

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Building your own Windows Runtime components to deliver great Metro style apps - Windows 8 app developer blog - Site Home - MSDN Blogs

Creating Windows Runtime Components in C# and Visual Basic

QUESTION 201

You need to ensure that the about page is displayed.

Which code segment should you insert at line DF13?

- ☐ A. `e.detail.commands = { "about": { href: "/Settings/about.html", title: "About" } };`
- ☐ B. `e.detail.applicationcommands = { "about": { target: "/Settings/about.html", title: "About" } };`
- ☐ C. `e.detail.applicationcommands = { "about": { href: "/Settings/about.html", title: "About" } };`
- ☐ D. `e.detail.commands = { "about": { target: "/Settings/about.html", title: "About" } };`

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

<http://msdn.microsoft.com/en-us/library/windows/apps/Hh701259.aspx>

QUESTION 202

You need to ensure that the settings for the About page meet the business requirements.

Which attribute should you add to the DIV element in line AB07?

- A. `data-win-options="{width:'narrow'}"`
B. `data-win-options="{width:'346'}"`
C. `data-win-options="{size:'narrow'}"`
D. `data-win-options="{size:'346'}"`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

SettingsFlyout.width property (Windows)

QUESTION 203

You need to ensure that the about.html page is displayed. Which code segment should you insert at line DF13?

- ☐ A.

```
e.detail.commandsrequested += { "about": { target: "/Settings/about.html", title: "About" } };
```
- ☐ B.

```
e.detail.applicationcommands = { "about": { href: "/Settings/about.html", title: "About" } };
```
- ☐ C.

```
e.detail.applicationcommands = { "about": { src: "/Settings/about.html", title: "About" } };
```
- ☐ D.

```
e.detail.commandsrequested += { "about": { href: "/Settings/about.html", title: "About" } };
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

<http://msdn.microsoft.com/en-us/library/windows/apps/Hh701259.aspx>

QUESTION 204

You need to ensure that the JavaScript object that is defined in the credentialManager.js file can be consumed by other Windows Store apps that are written in different programming languages.

How should you rewrite the code?

- A. As a WinJS.Class object
- B. As an ASP.NET server control
- C. As a Windows Runtime component
- D. As an XAML control

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Building your own Windows Runtime components to deliver great Metro style apps - Windows 8 app developer blog - Site Home - MSDN Blogs

QUESTION 205

You need to ensure that the about.html page is displayed according to the requirements.

Which attribute should you add to the DIV element in line AB07?

- A. data-win-control="WinJS.UI.GridLayout"
- B. data-win-control="WinJS.UI.AppBar"
- C. data-win-control="WinJS.UI.ListLayout"
- D. data-win-control="WinJS.UI.SettingsFlyout"

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

<http://msdn.microsoft.com/en-us/library/windows/apps/br229670.aspx>

Topic 3, Tailspin Toys

Background

You are developing a Windows Store app for Tailspin Toys. The app will allow customers to interact with toys online and to order toys.

Business Requirements

User Interface

The user interface must display toy categories, toys in each category, and product details about the toys. The product details must include the toy name, description, and one or more photos in different views. The toy categories must be distinct, and each toy must belong to only one category at a time.

The display of toy categories must remain at the top of the screen at all times. The display of all product details must be arranged in a grid. The user interface must allow the user to zoom images of toys, with a maximum zoom factor of five.

When inventory changes, the app must raise a toast notification with a brief sound alert. The toast notification must remain on the screen for five seconds. The area that displays the details of a single toy has the following requirements:

- o It must be one-third of the size of the area of the toy detail grid.
- o It must be on the left.

Settings

All settings must use the Settings charm.

The app must provide help and information.

Behavior

The app must restore user toy selection during an unexpected app termination. The app state must be restored when the app is activated after termination.

Technical Requirements

General

App calls must initialize the TailspinArtUpdater object in response to a Process Lifetime Management (PLM) notification.

The app includes a library named ToyInventory, which will be used to access the toy inventory system. The library includes a method named DisplayInventory(). Any compiler-generated metadata produced from this library must be consumable by JavaScript, C ++, and C# Windows Store apps.

The app must include an HTML5 control that has the following requirements:

It must use a GetToyInventory event to display app settings. It must have a relative path of html/ToyInventory.html. It must be invoked by using a link named Show Inventory, which displays in-context access to settings.

Styling

The styling details of the app must be located in the default CSS file.

Help and information

The app will call a function named LoadHelpContent to load help content from tailspintoys.html.

The app will display the help content by using the SettingsFlyout control.

Application Structure

Relevant portions of the app files are shown below. (Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.)

updateLayout.js

```
UL01 var ui = WinJS.UI; updateLayout: function (element, viewState) {  
UL02     var listView = element.querySelector(".groupedititemslist").winControl;  
UL03     if (viewState === appViewState.snapped) {  
UL04         ui.setOptions(listView, {  
UL05             itemDataSource: data.groups.dataSource,  
UL06             groupDataSource: null,  
UL07             layout: new ui.ListLayout()  
UL08         });  
UL09     }  
UL10     else {  
UL11         var groupDataSource =  
UL12             data.items.createGrouped(this.groupKeySelector, this.groupDataSelector);  
UL13         ui.setOptions(listView, {  
UL14             itemDataSource: data.items.dataSource,  
UL15  
UL16         });  
UL17     }  
UL18 }
```

showToast.js

```
ST01 function showToast()  
ST02 {  
ST03     var notifications = Windows.UI.Notifications;  
ST04     var notificationManager = notifications.ToastNotificationManager;  
ST05     var template = notifications.toastTemplateType.toastImageAndText01;  
ST06     var toastXml =  
        notificationManager.getTemplateContent(notifications.ToastTemplateType  
[template]);  
ST07     var images = toastXml.getElementsByTagName("image");  
ST08     images[0].setAttribute("src", "images/ToyInventoryChange.png");  
ST09     var textNodes = toastXml.getElementsByTagName("text");  
ST10     textNodes.appendChild(toastXml.createTextNode("Toy Inventory Changed"));  
ST11  
ST12  
ST13 }
```

showHelp.js

```
SH01 function showHelp() {  
SH02  
SH03  
SH04     LoadHelpContent();  
SH05  
SH06  
SH07 }
```

default.js

```
DF01 var app = WinJS.Application;
DF02
DF03 if (eventObject.detail.kind === Windows.ApplicationModel.Activation.ActivationKin
d.launch) {
DF04     if (eventObject.detail.previousExecutionState !==
DF05         Windows.ApplicationModel.Activation.ApplicationExecutionState.terminated) {
DF06         TailspinArtUpdater.Initialize();
DF07     }
DF08     else {
DF09         TailspinArtUpdater.Restore();
DF10     }
DF11     WinJS.UI.processAll();
DF12 }
DF13 }
```

QUESTION 206

You need to ensure that the app meets the business requirements for user interface design.

Which code segment should you insert at line UL15?

- A. layout: new ui.ListLayout (ui.GridLayout{ horizontal: "false" })
- B. layout: new ui.GridLayout({ groupHeaderPosition: "top" })
- C. layout: new ui.ListLayout({ horizontal: "false" })
- D. layout: new ui.GridLayout(ui. ListLayout{ groupHeaderPosition: "top" })

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

GridLayout.groupHeaderPosition property (Windows)

QUESTION 207

You need to ensure that the app maintains information according to the requirements.

Which event handlers should you implement? (Each correct answer presents part of the solution. Choose all that apply.)

- A. loaded
- B. activated
- C. onsettings
- D. oncheckpoint

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

onactivated event (Windows)

oncheckpoint event (Windows)

QUESTION 208

You need to implement the event that will provide access to app settings.

Which code segment should you use?

- ☐ A.

```
function GetToyInventory() {  
    WinJS.Application.onsettings = function (e) {  
        e.detail.applicationcommands = {  
            "ToyInventoryDiv": { title: "Show Inventory", href: "/html/  
ToyInventory.html" }  
        };  
        WinJS.UI.SettingsFlyout.populateSettings(e);  
    }  
}
```
- ☐ B.

```
function GetToyInventory() {  
    WinJS.UI.SettingsFlyout.showSettings("Show Inventory", "/html/ToyInventory.html");  
}
```
- ☐ C.

```
function GetToyInventory() {  
    WinJS.Application.onsettings = function (e) {  
        WinJS.UI.SettingsFlyout.populateSettings(e.applicationcommands = {  
            "ToyInventoryDiv": { title: "Show Inventory", href: "/html/  
ToyInventory.html" }  
        })  
    };  
}
```
- ☐ D.

```
function GetToyInventory() {  
    WinJS.UI.SettingsFlyout.show("Show Inventory", "/html/ToyInventory.html");  
}
```

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

WinJS.UI.SettingsFlyout object (Windows)

QUESTION 209

You need to ensure that the compiler-generated metadata for the ToyInventory library meets the requirements.

Which compiler and associated switch should you use?

- A. Use the MIDL.exe compiler with the /win64 switch.
- B. Use the MIDLRT.exe compiler with the /winmd switch.
- C. Use the MIDLRT.exe compiler with the /winrt switch
- D. Use the MDMERGE.exe compiler with the /v switch.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

MIDLRT and Windows Runtime components (Windows)

/winrt switch (Windows)

QUESTION 210

You need to ensure that the app presents notifications according to the requirements.

Which code segment should you insert at line ST11?

- ☐ A.

```
var duration = toastXml.getElementsByTagName("duration");  
duration[0].setAttribute("toast", toastContent.ToastDuration.long);
```
- ☐ B.

```
var duration = toastXml.getElementsByTagName("toast");  
duration[1].setAttribute("duration", toastContent.ToastDuration.short);
```
- ☐ C.

```
var duration = toastXml.getElementsByTagName("toast");  
duration[0].setAttribute("duration", toastContent.ToastDuration.short);
```
- ☐ D.

```
var duration = toastXml.getElementsByTagName("duration");  
duration[1].setAttribute("toast", toastContent.ToastDuration.long);
```

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

ToastNotifier.Show | show method (Windows)

QUESTION 211

You need to handle inventory changes according to the requirements.

Which code segment should you insert at line ST12?

- ☐ A. `notificationManager.createToastNotifier().getScheduledToastNotifications(toastXml);`
- ☐ B. `var toast = new notifications.ToastNotification(toastXml);
notificationManager.createToastNotifier().show(toast);`
- ☐ C. `var toast = new notifications.ToastNotification(toastXml);
notificationManager.createToastNotifier().getScheduledToastNotifications(toast);`
- ☐ D. `notificationManager.createToastNotifier().show(toastXml);`

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

ToastNotifier.Show | show method (Windows)

QUESTION 212

You need to implement the business requirement for the layout of the user interface.

Which navigation design patterns should you implement? (Each answer presents part of the solution. Choose all that apply)

- A. Use the Detail pages hierarchical system design pattern to display toys that belong to a category.
- B. Use the Flat system design pattern to navigate the different toy categories.
- C. Use the Hub pages hierarchical system design pattern to navigate the different toy categories.
- D. Use the Section pages hierarchical system design pattern to display toys that belong to a category.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Navigation patterns (Windows Store apps) (Windows)

QUESTION 213

You need to ensure that the app meets the business requirements for user interface design.

Which code segment should you insert at line UL15?

- A. layout: new ui.GridLayout({ groupHeaderPosition: "left" })
- B. layout: new ui.GridLayout({ groupHeaderPosition: "top" })
- C. layout: new ui.GridLayout(ui. ListLayout{ groupHeaderPosition: "left" })
- D. layout: new ui.GridLayout(ui. listLayout{ groupHeaderPosition: "top" })

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

ListLayout.groupHeaderPosition property (Windows)

Topic 4, Automotive Manufacturer

Background

You are developing an app for an automotive manufacturer. The app will display information about the vehicle, the vehicle owner's manual, and the maintenance schedule. The app will be available to install from the Windows Store.

Business Requirements

The app must meet the following business requirements:

- Display the company logo on the Main screen, Owner's Manual screen, and Service Record screen of the app.

- Allow users to store their vehicle information to identify the correct information to display within the app.

- Prominently display a stock image of the user's vehicle on the Main screen at the full height of the app.

- Send notifications by using tile updates when a scheduled maintenance is approaching or past due.

- Insert service data in the appropriate locations, and update the Service Record screen with data received from a cloud service.

- Display related media within the app.

Technical Requirements

The app must meet the following technical requirements.

User Experience

The app user interface must follow Microsoft design guidelines. The user must be able to insert or update service records. The user must be able to filter service records by date or service type. The user must be able to navigate between various parts of the app including but not limited to the Main screen, Service Record screen, and Owner's Manual screen. The user cannot switch between categories by using the Back button. The data from the cloud service must automatically populate the Service Record screen. The Main screen must have a dark background. All other screens must have a light background with contrasting colored text. All multimedia must provide a full-screen mode that can be activated by the end user. All media items must start when the user interacts with them and stop immediately when a video ends.

The app must accept and display tile messages and notification messages from the cloud service.

The navigational icons must not be displayed if the content of the screen does not require such display.

Any page of the owner's manual must be able to be pinned to the Windows Start screen. When the app is pinned to the Windows Start screen all live tile sizes must be available to the users.

When a specific app page is pinned to the Windows Start screen, the page tile cannot be wider or taller than the dimensions of a wide tile. Short names and display names must not be displayed on square tiles.

Development

The app must use Microsoft Visual Studio preconfigured templates with built-in data structures.

External notifications must be delivered by using Windows Push Notification Services (WNS).

The app must be able to receive push notifications from a Windows Azure Mobile Services endpoint.

Each HTML file must be supported by similarly named JavaScript and CSS files (for example, myFile.html, myFile.js, myFile.css).

File: main.html

Relevant portions of the app files are shown below. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

```

MH01 <!DOCTYPE html>
MH02 <html>
MH03 <head>
MH04 ...
MH05 <div class="section3" data-win-control="WinJS.UI.HubSection" data-win-
MH06 options="{ isHeaderStatic: true }"
MH07 data-win-res="{ winControl: {'header': 'Section3'} }">
MH08 <div class="top-image-row">
MH09 <video id="playMedia" style="position: relative;" poster="/images/
MH10 blank1.jpg"></video>
MH11 </div>
MH12 <div class="sub-image-row">
MH13 
MH14 
MH15 
MH16 </div>
MH17 <div class="win-type-medium" data-win-res="{ textContent:
MH18 'DescriptionText' }"></div>
MH19 <div class="win-type-small">
MH20 <span data-win-res="{ textContent: 'Section3Description' }"></span>
MH21 </div>
MH22 ...
MH23 </html>

```

File: main.js

Relevant portions of the app files are shown below. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

```

MJ01 (function () {
MJ02     "use strict";
MJ03     ...
MJ04     });
MJ05 }) ();
MJ06 function playMedia(e) {
MJ07     return function () {
MJ08         var vid = WinJS.Utilities.query("#playMedia")[0];
MJ09         switch(e)
MJ10         {
MJ11             case 1:
MJ12                 src = "media/movie1.mp4";
MJ13                 break;
MJ14             case 2:
MJ15                 src = "media/movie2.mp4";
MJ16                 break;
MJ17             default:
MJ18                 src = "media/movie3.mp4";
MJ19         }
MJ20         vid.src = src;
MJ21         vid.play();
MJ22     };
MJ23 }

```

File: manual.html

Relevant portions of the app files are shown below. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.


```

OH01 <!DOCTYPE html>
OH02 <html>
OH03 <head>
OH04   <meta charset="utf-8" />
OH05   <title>manual</title>
OH06   <link href="//Microsoft.WinJS.2.0/css/ui-dark.css" rel="stylesheet" />
OH07   <script src="//Microsoft.WinJS.2.0/js/base.js"></script>
OH08   <script src="//Microsoft.WinJS.2.0/js/ui.js"></script>
OH09   <link href="manual.css" rel="stylesheet" />
OH10   <script src="manual.js"></script>
OH11 </head>
OH12 <body>
OH13   <div class="manual fragment">
OH14     <header aria-label="Header content" role="banner">
OH15       <button data-win-control="WinJS.UI.BackButton"></button>
OH16       <h1 class="titlearea win-type-ellipsis">
OH17         <span class="pagetitle">Owner's Manual</span>
OH18       </h1>
OH19     </header>
OH20     <section aria-label="Main content" role="main">
OH21       <p>Owner's Manual Content</p>
OH22     </section>
OH23     <div id="appBar" data-win-control="WinJS.UI.AppBar" data-win-options="">
OH24       <button data-win-control="WinJS.UI.AppBarCommand"
          data-win-options="{id:'cmdPin',label:'Pin To Start',icon:'pin',
          section:'global',tooltip:''}"></button>
OH25     </div>
OH26   </div>
OH27 </body>
OH28 </html>

```

File: manual.js

Relevant portions of the app files are shown below. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.


```

OJ01 (function () {
OJ02     "use strict";
OJ03     WinJS.UI.Pages.define("/pages/manual/manual.html", {
OJ04         ready: function (element, options) {
OJ05             document.getElementById("cmdPin").addEventListener
OJ06 ("click", pinSecondaryTile, false);
OJ07             var navState = {
OJ08                 backStack: WinJS.Navigation.history.backStack.slice(0),
OJ09                 forwardStack: WinJS.Navigation.history.forwardStack.slice(0),
OJ10                 current: WinJS.Navigation.history.current
OJ11             };
OJ12             WinJS.Navigation.history = navState;
OJ13         },
OJ14         unload: function () {
OJ15         },
OJ16         updateLayout: function (element) {
OJ17         }
OJ18     });

OJ19     function pinSecondaryTile() {
OJ20         var SecondaryTileId = "SecondaryTile.Logo";
OJ21         var square70x70Logo =
OJ22             new Windows.Foundation.Uri("ms-appx:///Images/square70x70Tile-sdk.png");
OJ23         var square150x150Logo =
OJ24             new Windows.Foundation.Uri("ms-appx:///Images/square150x150Tile-sdk.png");
OJ25         var wide310x150Logo =
OJ26             new Windows.Foundation.Uri("ms-appx:///Images/wide310x150Tile-sdk.png");
OJ27         var square30x30Logo =
OJ28             new Windows.Foundation.Uri("ms-appx:///Images/square30x30Tile-sdk.png");
OJ29         var var1 = new Date();
OJ30         var newTileActivationArguments = SecondaryTileId + " WasPinnedAt=" + var1;
OJ31         var tile = new Windows.UI.StartScreen.SecondaryTile(SecondaryTileId, "Owner's
Manual",
            newTileActivationArguments,
            square150x150Logo,
            Windows.UI.StartScreen.TileSize.Square150x150);
OJ32         tile.visualElements.wide310x150Logo = wide310x150Logo;
OJ33         tile.visualElements.square30x30Logo = square30x30Logo;
OJ34         tile.visualElements.foregroundText =
Windows.UI.StartScreen.ForegroundText.dark;
OJ35         tile.requestCreateForSelectionAsync({ x: 0, y: 0, width: 640, height: 400 },
            Windows.UI.Popups.Placement.below);
OJ36     }

```

File: service.html

Relevant portions of the app files are shown below. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

```
SH01 <!DOCTYPE html>
SH02 <html>
SH03 <head>
SH04   ...
SH05 </head>
SH06 <body>
SH07
SH08 </body>
SH09 </html>
```

File: service.js

Relevant portions of the app files are shown below. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

```

SJ01 (function () {
SJ02     "use strict";
SJ03     WinJS.UI.Pages.define("/pages/service/service.html", {
SJ04         ready: function (element, options) {
SJ05             var buttonSave = document.getElementById("btnAddServiceRecord");
SJ06             var client = new WindowsAzure.MobileServiceClient(
SJ07                 "https://cardataservice17.azure-mobile.net/", "myPrivateKey"
SJ08             );
SJ09             ...
SJ10         });

SJ11     function updateTile() {
SJ12         var Notification = Notification;
SJ13         var square310x310Xml = Notification.TileUpdateManager.getTemplateContent
            (Notification.TileTemplateType.tileSquare310x310Text05);
SJ14         square310x310Xml.getElementsByTagName("text")[0].setAttribute("id", "1");
SJ15         square310x310Xml.getElementsByTagName("text")[0].appendChild
            (square310x310Xml.createTextNode("My Alert"));
SJ16         var wide310x150Xml = Notification.TileUpdateManager.getTemplateContent
            (Notification.TileTemplateType.tileWide310x150Text03);
SJ17         var tileTextAttributes = wide310x150Xml.getElementsByTagName("text");
SJ18         tileTextAttributes[0].appendChild(wide310x150Xml.createTextNode("My Alert"));
SJ19         var square150x150Xml = Notification.TileUpdateManager.getTemplateContent
            (Notification.TileTemplateType.tileSquare150x150Text04);
SJ20         var squareTileTextAttributes = square150x150Xml.getElementsByTagName("text");
SJ21         squareTileTextAttributes[0].appendChild(square150x150Xml.createTextNode
            ("My Alert"));
SJ22         var node =
            square310x310Xml.importNode(square150x150Xml.getElementsByTagName("binding")
                .item(0), true);
SJ23         square310x310Xml.getElementsByTagName("visual").item(0).appendChild(node);
SJ24         node =
            square310x310Xml.importNode(wide310x150Xml.getElementsByTagName("binding")
                .item(0), true);
SJ25         square310x310Xml.getElementsByTagName("visual").item(0).appendChild(node);
SJ26         var appNotification = new Notification.TileNotification(square310x310Xml);
SJ27
SJ28     }
SJ29 })();

```

QUESTION 214

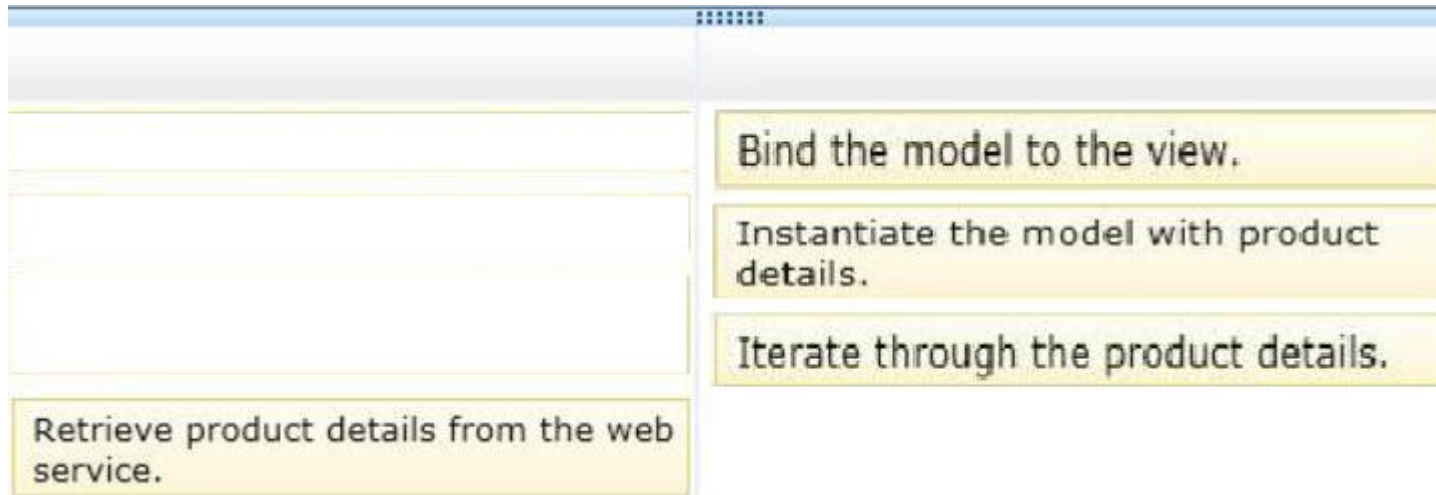
You need to ensure that the product details are displayed.

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

Select and Place:

Iterate through the product details.	
Bind the model to the view.	
Instantiate the model with product details.	
Retrieve product details from the web service.	

Correct Answer:

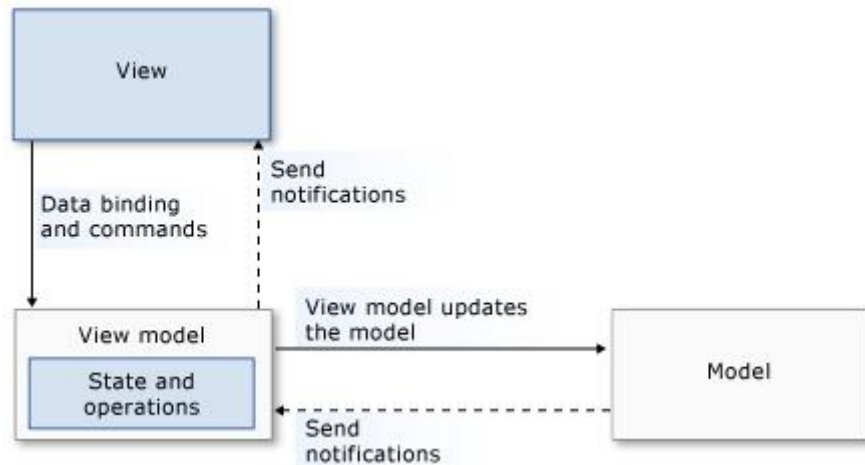


Section: (none)
Explanation

Explanation/Reference:

Note:

* Here are the relationships between a view, a view model and a model.



* MVVM is an architectural pattern. It is a specialization of the presentation model pattern that was introduced by Martin Fowler. It is also related to the model-view-

controller pattern (MVC) and the model view presenter (MVP) pattern that you may already know.

An app that uses MVVM separates business logic, UI, and presentation behavior.

/ Models represent the state and operations of business objects that your app manipulates. For example, Hilo reads and modifies image files, so it makes sense that data types for image files and operations on image files are part of Hilo's model.

/ Views contain UI elements, and they include any code that implements the app's user experience. A view defines the structure, layout, and appearance of what the user sees on the screen. Grids, pages, buttons, and text boxes are examples of the elements that view objects manage.

View models encapsulate the app's state, actions, and operations. A view model serves as the decoupling layer between the model and the view. It provides the data in a format that the view can consume and updates the model so that the view does not need to interact with the model. View models respond to commands and trigger events. They also act as data sources for any data that views display. View models are built specifically to support a view. You can think of a view model as the app, minus the UI. In Windows Store apps, you can declaratively bind views to their corresponding view models.

Reference:

Using the Model-View-ViewModel (MVVM) pattern in Hilo (Windows Store apps using C++ and XAML) (Windows)

QUESTION 215

You need to prepare the app according to the technical specifications.

Which tab in Visual Studio should you use? (To answer, select the correct tab in the answer area.)

Hot Area:

The properties of the deployment package for your application are contained in the application manifest file. You can use this designer to set or modify many of the properties.

Declarations

Content URIs

Packaging

Application UI

Capabilities

Use this page to specify system features or devices that your application can use.

Capabilities

- ☐ Documents Library
- ☐ Enterprise Authentication
- ☐ Internet (Client & Server)
- ☒ Internet (Client)
- ☐ Location
- ☐ Microphone
- ☐ Music Library
- ☐ Pictures Library
- ☐ Private Networks (Client & Server)
- ☐ Proximity
- ☐ Removable Storage
- ☐ Shared User Certificates
- ☐ Text Messaging
- ☐ Videos Library
- ☐ Webcam

Description

Provides the capability to add, change, or delete files. The app can only access file types in the Documents Library declaration. The app can't access Document Library.

[More Info](#)

Correct Answer:

The properties of the deployment package for your application are contained in the application manifest file. You can use this designer to set or modify many of the properties.

Declarations

Content URIs

Packaging

Application UI

Capabilities

Use this page to specify system features or devices that your application can use.

Capabilities

- ☐ Documents Library
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- ☐ Music Library
- ☐ Pictures Library
- ☐ Private Networks (Client & Server)
- ☐ Proximity
- ☐ Removable Storage
- ☐ Shared User Certificates
- ☐ Text Messaging
- ☐ Videos Library
- ☐ Webcam

Description

Provides the capability to add, change, or delete files. The app can only access file types in the Documents Library declaration. The app can't access Document Library.

[More Info](#)

Section: (none)

Explanation

Explanation/Reference:

QUESTION 216

You need to modify the app so that the user can play videos by tapping the screen.

What should you do?

- ☐ A. Replace line MH08 with the following markup segment:
`<video id="playMedia" style="position: relative;" control poster="/images/blank1.jpg"></video>`
- ☐ B. Replace line MH08 with the following markup segment:
`<video id="playMedia" style="position: relative;" loop poster="/images/blank1.jpg"></video>`
- ☐ C. Insert the following code segment at line MJ20:
`vid.scr.attrib = vid.fullScreen();`
- ☐ D. Replace line MJ21 with the following code segment:
`vid.play.focus.fullScreen();`

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

poster property (Windows)

controls property (Windows)

QUESTION 217

You are developing a Windows Store app.

Users must be able to initiate searches by using the Search charm. The app must display the search text in a DIV element named `statusMessage`.

You need to add code to meet this requirement.

Which code segment should you add?

- ☐ A.

```
WinJS.Application.onactivated = function (e) {  
    if (e.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {  
        var statusDiv = document.getElementById("statusMessage");  
        statusDiv.innerText = "Searching with query: " + e.detail.queryText;  
    }  
};
```
- ☐ B.

```
WinJS.Application.onactivated = function (e) {  
    if (e.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.search) {  
        var statusDiv = document.getElementById("statusMessage");  
        statusDiv.innerText = "Searching with query: " + e.detail.queryText;  
    }  
};
```
- ☐ C.

```
WinJS.Application.addEventListener("search", function (e) {  
    if (e.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {  
        var statusDiv = document.getElementById("statusMessage");  
        statusDiv.innerText = "Searching with query: " + e.detail.queryText;  
    }  
});
```
- ☐ D.

```
WinJS.Application.onsearch = function (e) {  
    var statusDiv = document.getElementById("statusMessage");  
    statusDiv.innerText = "Searching with query: " + e.detail.queryText;  
};
```

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

onactivated event (Windows)

ActivationKind enumeration (Windows)

getElementById method (Windows)

QUESTION 218

You are developing a Windows Store app. The app includes a handler for the datarequested event.

A portion of the code for the event handler is shown in the following code segment:

```
01 function onDataRequested(e) {  
02   e.request.data.properties.title = "Order #12345";  
03   e.request.data.properties.description = "Track your order";  
04   var url = "http://www.fabrikam.com?Order=12345";  
05  
06 }
```

The app must meet the following requirements:

The app must share an order tracking link with target apps.

The app must share URI-type data only.

You need to ensure that the app meets the requirements.

Which code segment should you insert at line 05?

- ☐ A. `e.request.data.setData(url);`
- ☐ B. `e.request.data.setText(url);`
- ☐ C. `var link = new Windows.Foundation.Uri(url);
e.request.data.setUri(link);`
- ☐ D. `var link = new Windows.Foundation.Uri(url)
e.request.setLink(link);`

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Windows.Foundation classes (Windows)

QUESTION 219

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

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

A customer must enter a valid age in the text box prior to submitting the form.
You need to add validation to the control.

Which code segment should you use?

```

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

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

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

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

return emailPattern.test(userinput);
}

```

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 220

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.)

- 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: (none)

Explanation

Explanation/Reference:

QUESTION 221

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: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/tags/tag_nav.asp

QUESTION 222

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?

- ☐ A.

```
Customer.apply.GetCommission() = function()  
{  
    alert('payroll');  
}
```
- ☐ B.

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

```
Customer.GetCommission() = function () {  
    alert('payroll');  
}
```
- ☐ D.

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

A. Option A

B. Option B

- C. Option C
- D. Option D

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 223

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

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

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

You need to ensure that the text box is added.

Which function should you use?

- ☐ A.

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

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

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

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

- A. Option A
B. Option B

- C. Option C
- D. Option D

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 224

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: (none)

Explanation

Explanation/Reference:

Reference:

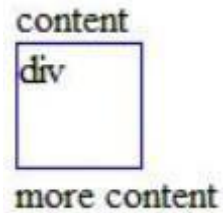
http://www.w3schools.com/cssref/pr_class_position.asp http://www.w3schools.com/cssref/pr_pos_top.asp

QUESTION 225

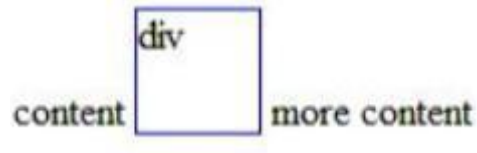
You are developing a web page by using HTML5 and CSS3. The page includes a <div> tag with the ID set to validate.

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: (none)

Explanation

Explanation/Reference:

Reference:

http://www.w3schools.com/cssref/pr_class_display.asp

QUESTION 226

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?

- ☐ A.

```
#alldiv
{
  background: yellow;
  font: 12px/22px Arial;
}
```
- ☐ B.

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

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

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

A. Option A

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 227

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?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 228

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: (none)

Explanation

Explanation/Reference:

QUESTION 229

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: (none)

Explanation

Explanation/Reference:

QUESTION 230

You are developing a web page that performs CPU-intensive calculations. A web worker processes these calculations on a separate background thread. The process is instantiated from the web page.

You need to stop the web worker process after the calculations are completed.

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

- A. From the web page, call the close() method.
- B. From the web worker process, call the terminate() method.
- C. From the web page, call the terminate() method.
- D. From the web worker process, call the close() method.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 231

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: (none)

Explanation

Explanation/Reference:

QUESTION 232

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.getEiementById("picture").style.top = "-5px";
- D. document.getElementById("picture").style.position = "absolute";

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

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 233

You need to configure the CredentialPicker object to meet the requirements.

Which code segment should you insert at line GC04?

- A. options.callerSavesCredential = false;
- B. options.CredentialSaveOption.unselected;
- C. options.CredentialSaveOption.selected;
- D. options.callerSavesCredential = true;
- E. options.CredentialSaveOption.hidden;

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

CredentialPickerOptions.CallerSavesCredential | callerSavesCredential property (Windows)

QUESTION 234

You need to implement the code to meet the search requirements. Which code segment should you insert at line NP11?

- ☐ A.

```
for (var i = 0, len = suggestionList.length; i < len; i++) {  
    if (suggestionList[i] === query) {  
        suggestionRequest.searchSuggestionCollection.appendQuerySuggestion  
        (suggestionList[i]);  
    }  
}
```
- ☐ B.

```
for (var i = 0, len = suggestionList.length; i < len; i++) {  
    if (suggestionList[i] === query) {  
        suggestionRequest.searchSuggestionCollection.appendResultSuggestion  
        (suggestionList[i]);  
    }  
}
```
- ☐ C.

```
for (var i = 0, len = suggestionList.length; i < len; i++) {  
    if (suggestionList[i].substr(0, query.length).toLowerCase() === query) {  
        suggestionRequest.searchSuggestionCollection.appendResultSuggestion  
        (suggestionList[i]);  
    }  
}
```
- ☐ D.

```
for (var i = 0, len = suggestionList.length; i < len; i++) {  
    if (suggestionList[i].substr(0, query.length).toLowerCase() === query) {  
        suggestionRequest.searchSuggestionCollection.appendQuerySuggestion  
        (suggestionList[i]);  
    }  
}
```

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

<http://msdn.microsoft.com/en-us/library/windows/apps/windows.applicationmodel.search.searchsuggestioncollection.aspx>

QUESTION 235

You need to implement the code to retrieve news items according to the requirements.

Which code segment should you add to newsPage.js?

☐ A.

```
function fetchDailyNews(){
  WinJS.xhr({ url: "http://www.southridgevideo.com/feed" })
    .then(function progress(result) {
      progressDiv.innerText = result.readyState;},
    function complete(result) {
      ...
    });
}
```

☐ B.

```
function fetchDailyNews(){
  WinJS.xhr({ url: "http://www.southridgevideo.com/feed" })
    .then(function progress(result) {
      progressDiv.innerText = result.readyState;
    })
    .then(function complete(result) {
      ...
    });
}
```

☐ C.

```
function fetchDailyNews(){
  WinJS.xhr({ url: "http://www.southridgevideo.com/feed" })
    .done(function progress(result) {
      progressDiv.innerText = result.readyState;
    });
}
```

☐ D.

```
function fetchDailyNews(){
  WinJS.xhr({ url: "http://www.southridgevideo.com/feed" })
    .done(function complete(result) {
      ...
    }, null,
    function progress(result) {
      progressDiv.innerText = result.readyState;
    });
}
```

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

WinJS.xhr function (Windows)

QUESTION 236

You need to ensure that the app displays only contacts that meet the requirements.

Which code segment should you insert at line EJ03?

- ☐ A.

```
picker.selectionMode =  
Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
```
- ☐ B.

```
picker.selectionMode =  
Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;
```
- ☐ C.

```
picker.desiredFields.append(Windows.ApplicationModel.Contacts.ContactField  
("Email", string);
```
- ☐ D.

```
picker.desiredFields.append  
(Windows.ApplicationModel.Contacts.KnownContactField.email);
```

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

D. Option D

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

KnownContactField class (Windows)

QUESTION 237

You need to ensure that the user can annotate news items according to the requirements.

Which code segment should you insert at line NJ03?

- ☐ A. `return (pointerDeviceType === "Pen" || (pointerDeviceType === "Mouse" && evt.button === 1));`
- ☐ B. `return (pointerDeviceType === "Pen" || (pointerDeviceType === "Mouse" && evt.button === 0));`
- ☐ C. `return (pointerDeviceType === "Pen" || (pointerDeviceType === "Mouse" && evt.type === 0));`
- ☐ D. `return (pointerDeviceType === "Pen" || (pointerDeviceType === "Mouse" && evt.type === 1));`

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

<http://msdn.microsoft.com/en-us/library/windows/apps/jj883712.aspx>

QUESTION 238

You need to implement the code to meet the requirements for handling changes in the annotation area of the newItem.html page.

Which event handler should you add to newItem.js?

- ☐ A. `WinJS.Navigation.addEventListener("beforenavigate", onbeforeNavigate);`
`function onbeforeNavigate(eventObject) {`
 `if (hasChanges) {`
 `eventObject.detail.setPromise(WinJS.Promise.wrap(true));`
 `}`
 `else {`
 `eventObject.detail.setPromise(WinJS.Promise.wrap(false));`
 `}`
`}`
- ☐ B. `WinJS.Navigation.addEventListener("navigating", onNavigating);`
`function onNavigating(eventObject) {`
 `if (hasChanges) {`
 `eventObject.detail.setPromise(WinJS.Promise.wrap(true));`
 `}`
 `else {`
 `eventObject.detail.setPromise(WinJS.Promise.wrap(false));`
 `}`
`}`
- ☐ C. `WinJS.Navigation.addEventListener("beforenavigate", onbeforeNavigate);`
`function onbeforeNavigate(eventObject) {`
 `eventObject.detail = null;`
`}`
- ☐ D. `WinJS.Navigation.addEventListener("navigating", onNavigating);`
`function onNavigating(eventObject) {`
 `eventObject.detail = null;`
`}`

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

onbeforenavigate event (Windows)

QUESTION 239

You add an element with an ID of MyFlexbox to newsPage.html.

You need to ensure that the layout for MyFlexbox meets the requirements.

Which layout should you choose?

- ☐ A.

```
#MyFlexbox {  
  display: -ms-flexbox;  
  background: gray;  
  border: blue;  
  -ms-flex-wrap: wrap;  
}
```
- ☐ B.

```
#MyFlexbox {  
  display: -ms-inline-grid;  
  background: gray;  
  border: blue;  
  -ms-grid-columns: auto;  
}
```
- ☐ C.

```
#MyFlexbox {  
  display: -ms-grid;  
  background: gray;  
  border: blue;  
  -ms-grid-columns: auto;  
}
```
- ☐ D.

```
#MyFlexbox {  
  display: -ms-flexbox;  
  background: gray;  
  border: blue;  
  -ms-flex-align: stretch;  
}
```

A. Option A

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

flex-wrap property (Windows)

Topic 2, Windows Store app

Background

You are developing a Windows Store app by using HTML5, JavaScript, and CSS3. The app will be used to access details about products that your company sells.

Business Requirements

The app must do all of the following:

Be available to customers in many different countries.

Display a list of product categories.

Display the products for a selected category.

Display details of a selected product.

Display images of each product one at a time in a vertical presentation. Provide a link to an about section in the Settings pane.

Update product data on a daily basis.

Allow the user to view the last selected product while the app is offline.

Be deployed in the Windows Store.

Technical Requirements

General

When the user restarts the app, the app must start in the state it was in when it was last used.

App settings controls must be 346 pixels wide.

The app must optimize bandwidth use and performance.

Security

The app must use an enterprise certificate.

The user must provide valid credentials to access the app. After user authentication, the app must use stored credentials. User accounts will be validated against a pre-existing enterprise service.

App Architecture

Service calls must be separated from the user interface.

The app must follow the MVC design pattern.

Service classes can be written in C++, C#, VB, or JavaScript. The app must communicate with pre-existing enterprise services.

Application Structure

Relevant portions of the app files are shown below. (Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.)

about.html

```
AB01 <!DOCTYPE html>
AB02 <html>
AB03   <head>
AB04     <title>About</title>
AB05   </head>
AB06   <body>
AB07     <div id="about">
AB08       <div class="win-header">
AB09         <div class="win-label">About</div>
AB10       </div>
AB11       <div class="win-content">
AB12         ...
AB13       </div>
AB14     </div>
AB15   </body>
AB16 </html>
```

QUESTION 240

You need to implement the `getStoredCredentialsFull` method.

Which code segment should you insert at line CM13?

- ☐ A. `credential = credentialStore.retrieve(applicationID, userName);
var credentialStore = new Windows.Security.Credentials.PasswordVault();`
- ☐ B. `credential = credentialStore.pickAsync(applicationID, userName);
var credentialStore = new Windows.Security.Credentials.UI.CredentialPicker();`
- ☐ C. `var credentialStore = new Windows.Security.Credentials.PasswordVault();
credential = credentialStore.retrieve(applicationID, userName);`
- ☐ D. `var credentialStore = new Windows.Security.Credentials.UI.CredentialPicker();
credential = credentialStore.pickAsync(applicationID, userName);`

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

PasswordVault class (Windows)

QUESTION 241

You need to ensure that the about.html page is displayed according to the requirements.

Which attribute should you add to the DIV element in line AB07?

- A. `data-win-control="WinJS.UI.ApplicationSettings.SettingsLayout"`
B. `data-win-control="WinJS.UI.SettingsLayout"`
C. `data-win-control="WinJS.UI.ApplicationSettings.SettingsPane"`
D. `data-win-control="WinJS.UI.SettingsPane"`

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

<http://msdn.microsoft.com/library/windows/apps/br208189>

QUESTION 242

You are preparing to deploy the app.

You need to ensure that the app meets the deployment requirements.

Which tool should you use to validate the app?

- A. Windows App Cert Kit
- B. System Center Configuration Manager
- C. Microsoft Deployment Toolkit
- D. SelfCert

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Using the Windows App Certification Kit (Windows)

QUESTION 243

You need to implement the saveCredentials method.

Which code segment should you insert at line CM06?

- ☐ A. `var passwordVault = new Windows.Security.Credentials.PasswordVault();
var credential =
 new Windows.Security.Credentials.PasswordCredential(applicationID, userName,
password);
passwordVault.save(credential);`
- ☐ B. `var credentialPicker = new Windows.Security.Credentials.UI.CredentialPicker();
var credential =
 new Windows.Security.Credentials.PasswordCredential(applicationID, userName,
password);
credentialPicker.store(credential);`
- ☐ C. `var credentialPicker = new Windows.Security.Credentials.UI.CredentialPicker();
var credential =
 new Windows.Security.Credentials.PasswordCredential(applicationID, userName,
password);
credentialPicker.save(credential)`
- ☐ D. `var passwordVault = new Windows.Security.Credentials.PasswordVault();
var credential =
 new Windows.Security.Credentials.PasswordCredential(applicationID, userName,
password);
passwordVault.add(credential);`

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Managing application data in a Windows Store business app using C#, XAML, and Prism (Windows)
PasswordVault class (Windows)

QUESTION 244

You need to ensure that product images are displayed according to the requirements.

Which attributes should you use? (To answer, drag the appropriate attributes to the correct locations in the answer area. Each attribute 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:

```
data-win-control="WinJS.UI.Flyout"
```

```
data-win-control="WinJS.UI.FlipView"
```

```
data-win-control="WinJS.UI.ScrollView"
```

```
data-win-options="{ scroll: 'vertical' }">
```

```
data-win-options="{ orientation: 'vertical' }">
```

```
data-win-options="{ scroll: 'horizontal' }">
```

```
data-win-options="{ orientation: 'horizontal' }">
```

```
<div id="photoContainer"
```

```
</div>
```

Correct Answer:

Section: (none)
Explanation

Explanation/Reference:

QUESTION 245

You need to handle the state of the app upon reactivation to meet the requirements.

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

Select and Place:

Check the **detail.kind** object of the event arguments.

Get the previous state of the app and update.

Check the **detail.previousExecutionState** object of the event arguments.

Handle the **WinJS.Application.onActivated** event.

Check the **detail.state** object of the event arguments.

Correct Answer:

Handle the WinJS.Application.onActivated event.

- Check the **detail.state** object of the event arguments.
- Get the previous state of the app and update.
- Check the **detail.previousExecutionState** object of the event arguments.
- Check the **detail.kind** object of the event arguments.

Section: (none)

Explanation

Explanation/Reference:

QUESTION 246

You need to configure the app to receive push notifications.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Answer Area	
On the Capabilities tab of the app manifest, select the Private Networks (Client & Server) check box.	
Authenticate the Windows Azure Mobile Services with the client secret and Package security identifier (SID) provided by Windows Push Notification Service (WNS).	
Register the app name in the Windows Dev Center.	
On the Capabilities tab of the app manifest, select the Enterprise Authentication check box.	
Associate the app with the Windows Store.	
Establish the channel between the PushNotificationChannelManager and the WNS Service.	

Correct Answer:

	Answer Area
	Register the app name in the Windows Dev Center.
	Authenticate the Windows Azure Mobile Services with the client secret and Package security identifier (SID) provided by Windows Push Notification Service (WNS).
	On the Capabilities tab of the app manifest, select the Private Networks (Client & Server) check box.
	On the Capabilities tab of the app manifest, select the Enterprise Authentication check box.
Associate the app with the Windows Store.	
Establish the channel between the PushNotificationChannelManager and the WNS Service.	

Section: (none)
Explanation

Explanation/Reference:


QUESTION 247

You need to begin the project development.

Which project template should you choose? To answer, select the appropriate project template type in the answer area.

Hot Area:

Answer Area

	Blank App	JavaScript
	Grid App	JavaScript
	Split App	JavaScript
	Hub App	JavaScript
	Navigation App	JavaScript

Correct Answer:

Answer Area

	Blank App	JavaScript
	Grid App	JavaScript
	Split App	JavaScript
	Hub App	JavaScript
	Navigation App	JavaScript

Section: (none)

Explanation

Explanation/Reference:

QUESTION 248

You are developing a Windows Store app. The app allows users to browse contacts from a social networking site.

The app has the following requirements:

The user must be able to select more than one contact at a time.

The app must display all of the details for the selected contacts.

You need to ensure that the requirements are met.

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

```
function selectContacts() {  
    var picker = Windows.ApplicationModel.Contacts.ContactPicker();  
    picker.commitButtonText = "Select";  
    picker.selectionMode =  
      
      
    .then(function (contacts) {  
        ...  
    });  
});  
}
```

Hot Area:

```
function selectContacts() {
    var picker = Windows.ApplicationModel.Contacts.ContactPicker();
    picker.commitButtonText = "Select";
    picker.selectionMode =
        picker.pickSingleContactAsync()
        picker.pickMultipleContactsAsync()
        Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
        Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;

    picker.pickSingleContactAsync()
    picker.pickMultipleContactsAsync()
    Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
    Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;

    .then(function (contacts) {
        ...
    });
});
}
```

Correct Answer:


```
function selectContacts() {
    var picker = Windows.ApplicationModel.Contacts.ContactPicker();
    picker.commitButtonText = "Select";
    picker.selectionMode =
    <div data-bbox="276 221 714 338" data-label="Form">
        <div data-bbox="276 221 714 251" data-label="Form">
            <div data-bbox="276 251 714 271" data-label="Text">picker.pickSingleContactAsync()
        </div>
        <div data-bbox="276 271 714 291" data-label="Text">picker.pickMultipleContactsAsync()
        </div>
        <div data-bbox="276 291 714 311" data-label="Text">Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
        </div>
        <div data-bbox="276 311 714 338" data-label="Text">Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;
        </div>
    </div>
    <div data-bbox="276 348 714 471" data-label="Form">
        <div data-bbox="276 348 714 378" data-label="Form">
            <div data-bbox="276 378 714 398" data-label="Text">picker.pickSingleContactAsync()
        </div>
        <div data-bbox="276 398 714 418" data-label="Text">picker.pickMultipleContactsAsync()
        </div>
        <div data-bbox="276 418 714 438" data-label="Text">Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
        </div>
        <div data-bbox="276 438 714 471" data-label="Text">Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;
        </div>
    </div>

    .then(function (contacts) {
        ...
    });
});
}
```

Section: (none)

Explanation

Explanation/Reference:

ContactSelectionMode enumeration (Windows)

ContactPicker.PickMultipleContactsAsync | pickMultipleContactsAsync method (Windows)

QUESTION 249

You need to implement the navigation between screen categories.

What should you do?

- A. Place one link for each category on every screen and use an <href> tag to go to the category screens.
- B. Implement category navigation controls on the nav bar on every screen.
- C. Place one button for each category on every screen and use the WinJS.navigate command to go to the category screens.
- D. Implement category navigation controls on the app bar on every screen.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Navigation patterns (Windows Store apps) (Windows)

QUESTION 250

You need to implement the app bar for the Service Record screen.

Which markup segment should you insert at line SH07?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

WinJS.UI.AppBar object (Windows)

WinJS.UI.AppBarCommand object (Windows)