

- **Vendor: Microsoft**
- **Exam Code: 70-480**
- **Exam Name: Programming in HTML5 with JavaScript and CSS3 Exam**
- **Question 121 -- Question 150**

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QUESTION 121

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

Answer: D

QUESTION 122

Hotspot Question

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

True
False

24.3 `isNaN(userInput)` returns

True
False

3*8 `isNaN(userInput)` returns

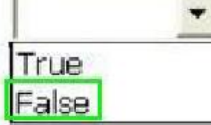
True
False

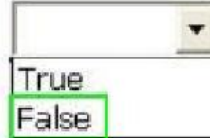
'5' `isNaN(userInput)` returns

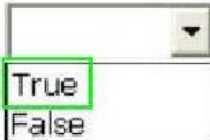
True
False

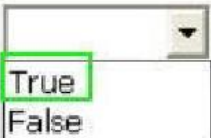
Answer:

If user inputs:

-13 `isNaN(userInput)` returns 

24.3 `isNaN(userInput)` returns 

3*8 `isNaN(userInput)` returns 

'5' `isNaN(userInput)` returns 

QUESTION 123

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.

Answer: B

QUESTION 124

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

Answer: A

QUESTION 125

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.

Answer: B

QUESTION 126

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

Answer: AB

QUESTION 127

You develop a webpage by using HTML5.

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

The user interface must look like the following;

Enter your information:

Name:

Email:

You need to create the user interface.
Which markup should you use?

- ☐ 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>
```
- ☐ B.

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

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

Answer: B

QUESTION 128

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"/>`

Answer: D

QUESTION 129

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

Answer: D

QUESTION 130

Drag and Drop Question

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.)

	Answer Area
article	< <input type="text"/> >
aside	< <input type="text"/> >
body	Welcome to the Semantic Web!
div	</ <input type="text"/> >
div class="posting"	< <input type="text"/> >
div id="posting"	...
head	</ <input type="text"/> >
header	</ <input type="text"/> >

Answer:

	Answer Area
article	< <input type="text" value="article"/> >
aside	< <input type="text"/> >
body	header
div	Welcome to the Semantic Web!
div class="posting"	</ <input type="text" value="header"/> >
div id="posting"	< <input posting"="" type="text" value="div class="/> >
head	...
header	</ <input type="text" value="div"/> >
	</ <input type="text" value="article"/> >

QUESTION 131

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

Answer: A

QUESTION 132

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.ess.
- The corporate.ess file contains the style rule that must be used for .newsItem.
- You must use the corporate.ess 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.ess 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.ess 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.

Answer: D

QUESTION 133

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

Answer: B

QUESTION 134

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

Answer: D

QUESTION 135

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

Answer: D

QUESTION 136

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

Answer: C

QUESTION 137

Hotspot Question

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');
```

```
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');
```

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');
```

QUESTION 138

You want to embed a Flash file called myFlash.swf in your HTML document. Which is the most appropriate code?

- A.
- B. <iframe src="myFlash.swf" ></iframe>
- C.
- D. <embed src="myFlash.swf" ></embed>

Answer: D

QUESTION 139

You want to create a drawing of a machine that Contoso, Ltd., will be selling on its website. The drawing will be embedded in your HTML document, and you want it to maintain its quality when resized. Which is the most appropriate file type to use?

- A. SVG
- B. GIF
- C. JPG
- D. PNG

Answer: A

QUESTION 140

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Your application prompts the user to enter his or her age, which is placed in an age variable. A user ran the application and entered I Don't Know for the age. The application then multiplies age by two. What is the result?

- A. undefined
- B. null
- C. NaN
- D. infinity

Answer: C

QUESTION 141

Which of the following represent valid variable declarations? (Choose all that apply.)

- A. var switch;
- B. var myChar;
- C. var \$cost;
- D. var _total;
- E. var 1to1;
- F. var tooGood4u;

Answer: BCDF

QUESTION 142

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

Answer: B

QUESTION 143

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.

Answer: CD

QUESTION 144

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

Answer: C

QUESTION 145

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 (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");

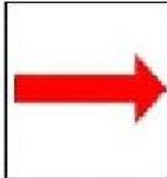
Answer: A

QUESTION 146

You are developing an application that retrieves a stock rate from an external web service. A web page displays a simple rotating animation to indicate whether the stock rate is increased or decreased.

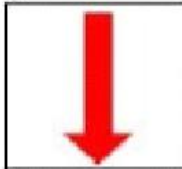
The default image, as shown in the following graphic, indicates unchanged or neutral.

Stock Price



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

Stock Price



You need to ensure that the arrow points down when the stock rate decreases.
Which CSS style should you apply?

- ☐ A.

```
<style type="text/css">
div
{
    width:20px;
    height:20px;
    transform:move (90deg) ;
}
</style>
```
- ☐ B.

```
<style type="text/css">
div
{
    width:20px;
    height:20px;
    transform:rotate (-90deg) ;
}
</style>
```
- ☐ C.

```
<style type="text/css">
div
{
    width:20px;
    height:20px;
    transform:move (-90deg) ;
}
</style>
```
- ☐ D.

```
<style type="text/css">
div
{
    width:20px;
    height:20px;
    transform:rotate (90deg) ;
}
</style>
```

Answer:

- ☐ 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>
```

QUESTION 147

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

Answer: A

QUESTION 148

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.

Answer: C

QUESTION 149

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.

Answer: C

QUESTION 150

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.

Answer: BD

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