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【Exam Code】 [70-480](#)

【Exam Name】 Programming in HTML5 with JavaScript and CSS3

【Certification Provider】 Microsoft

【Corresponding Certifications】 MCSD, MCSD: SharePoint Applications, MCSD: Web Applications, MCSD: Windows Store Apps, Microsoft Specialist: Visual Studio

2016 NEW 70-480 Study Guides:

1. Implement and manipulate document structures and objects
2. Implement program flow
3. Access and secure data
4. Use CSS3 in applications

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QUESTION 81

You are developing an application that analyzes population data for major cities in the United States.

The application retrieves population statistics for a city by using a web service.

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

Which code segment should you use?

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

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

Answer: D

QUESTION 82

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

Answer: D

QUESTION 83

You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability.

Which tag should you use?

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

Answer: A

Explanation:

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

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

Here is one of them:

A new `<article>` tag. The new `<article>` tag is probably the best addition from a SEO point of view. The `<article>` tag allows to mark separate entries in an online publication, such as a blog or a magazine.

It is expected that when articles are marked with the `<article>` tag, this will make the HTML code cleaner because it will reduce the need to use `<div>` tags.

Also, probably search engines will put more weight on the text inside the `<article>` tag as compared to the contents on the other parts of the page.

QUESTION 84

Drag and Drop Question

You are developing a shared library to format information.

The library contains a method named `_private`.

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

You need to implement an API for the shared library.

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

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

Answer:

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

QUESTION 85

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

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

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

Product
Adjustable Race
Blade
Chainring
Down Tube

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

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

Answer: C

Explanation:

`tr:first-of-type`

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

Here the first line of table.

`tr:last-of-type`

The `:last-of-type` pseudo-class represents an element that is the last sibling of its type in the list of children of its parent element.

QUESTION 86

You develop a webpage by using HTML5.

You create the following markup:

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

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

What should you do?

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

Answer: B

Explanation:

Note:

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

QUESTION 87

You develop a webpage by using HTML5.

You create the following markup and code: (Line numbers are included for reference only.)

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

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

Which code segment should you insert at line 04?

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

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

Answer: A

Explanation:

Example:

Sometimes situations arise when user should fill a single or more than one fields with alphabet characters (A-Z or a-z) in a HTML form.

You can write a JavaScript form validation script to check whether the required field(s) in the HTML form contains only letters.

- See more at:

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

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

```
function allLetter(inputtxt)
{
var letters = /^[A-Za-z]+$/.test(inputtxt.value);
if(inputtxt.value.match(letters))
```



```
{  
return true;  
}  
else  
{  
alert("message");  
return false;  
}  
}
```

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

Here is the complete web document.

- See more at:

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

QUESTION 88

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

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

Answer: A

QUESTION 89

Hotspot Question

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

You write the following HTML markup that makes a rectangle rotate:

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

You need to control the speed of the rotating rectangle.

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


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

  function startAnimation () {

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

    squareShape.currentTheta = 0;

    myTimer=
    speed.value;
    myTimer.interval (speed.value);
    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>
```

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);
        setTimeout(animateImage, speed.value);
        new timer(animateImage, speed.value);

        animateImage();
    }

    function animateImage() {

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

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

QUESTION 90

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

- A. Projects
- B. Assets
- C. Device

D. Live DOM

Answer: B

QUESTION 91

You want to create an expando attribute on several `<h3>` tags that display vehicles for sale. The expando attribute will store the VIN (vehicle identification number) of the vehicle for sale. Which of the following is the most appropriate example of creating the expando attribute?

- A. `<h3 vin='current VIN here'>1965 VW Beetle</h3>`
- B. `<h3 id='current VIN here'>1965 VW Beetle</h3>`
- C. `<h3 data-vin='current VIN here'>1965 VW Beetle</h3>`
- D. `<h3 datavin='current VIN here'>1965 VW Beetle</h3>`

Answer: C

QUESTION 92

Which technology is HTML5 preceded by and derived from?

- A. HTML 4.01
- B. SGML
- C. XHTML 1.0
- D. XML

Answer: A

QUESTION 93

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.) 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?

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

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

Answer: C

QUESTION 94

You are creating a new Windows 8 application, and you want to set up TDD for your JavaScript code. Which testing framework will you use?

- A. QUnit
- B. QUnit-Metro
- C. Microsoft Test
- D. NUnit

Answer: B

QUESTION 95

What are the steps for TDD?

- A. Write the passing test, write the code, run the test again to validate that it still passes.
- B. Write the failing test, write the code, run the test again to validate that it passes.
- C. Write the code, write the test to validate that it passes, run the test again to validate that it still passes.
- D. Write the passing test, write the code, break the code, run the test again to validate that it fails.

Answer: B

QUESTION 96

Where should your JavaScript code be placed?

- A. In the <head> element of your HTML document.
- B. Just before the </body> tag.
- C. You should always place your JavaScript code in separate files, external to your HTML document.
- D. Inside the <body> element, at the top.

Answer: C

QUESTION 97

You have two arrays of strings, customers and employees, and you want to combine them to create a contacts array.

Which method would be most suitable for this task?

- A. concat
- B. join
- C. push
- D. splice

Answer: A

QUESTION 98

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

Answer: A

QUESTION 99

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

Answer: A

QUESTION 100

Hotspot Question

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.

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.

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.