Microsoft

Exam Questions 70-480

Programming in HTML5 with JavaScript and CSS3
NEW QUESTION 1
HOTSPOT
You are developing an airline reservation website by using HTML5 and JavaScript. A page on the site allows users to enter departure and destination airport information and search for tickets.
You have the following requirements:
Users must be able to save information in the application about their favorite destination airport.
The airport information must be displayed in the destination text box whenever the user returns to the page.
You need to develop the site to meet the requirements.
Which lines of code should you use? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```html
<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>
```
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A. Mastered
B. Not Mastered

Answer: A

Explanation:
* retrieve localStorage.destination
* store localStorage.destination

NEW QUESTION 2
HOTSPOT
You are developing an HTML5 web application for displaying encyclopedia entries. Each encyclopedia entry has an associated image that is referred to in the entry. You need to display the image by using the correct semantic markup.
What should you do? (To answer, select the appropriate options from the drop-down list in the answer area.)

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A. Mastered
B. Not Mastered

Answer: A

Explanation:
The `<figure>` element is intended to be used in conjunction with the `<figcaption>` element to mark up diagrams, illustrations, photos, and code examples (among other things).
Example:
```html
<figure>
  <img src="/macaque.jpg" alt="Macaque in the trees">
  <figcaption>A cheeky macaque, Lower Kintaganban River, Borneo. Original by <a href="http://www.flickr.com/photos/rclark/">Richard Clark</a></figcaption>
</figure>
```
Reference: The figure & figcaption elements

NEW QUESTION 3

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";
NEW QUESTION 4
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";`

Answer: A

Explanation:
* `display: inline` Default value. Displays an element as an inline element (like `<span>`)  
  * Example
  Display `<p>` elements as inline elements: `p.inline {
      display: inline;
  }`

Reference: CSS display Property http://www.w3schools.com/cssref/pr_class_display.asp

NEW QUESTION 5
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?
try {
    doWork();
    catch(e) {
        if (e.number == -2146823281)
            ...
    }
}

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

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

Answer: C

Explanation:
- The try statement lets you test a block of code for errors. The catch statement lets you handle the error.

The JavaScript statements try and catch come in pairs: try {
  Block of code to try
} catch(err) {
  Block of code to handle errors
}

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

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

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

The output of this code is as follows. Error Code: 5009
Facility Code: 10
Error Message: 'y' is undefined
Reference: JavaScript Errors - Throw and Try to Catch; number Property (Error) (JavaScript)

NEW QUESTION 6
DRAG DROP
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.)
A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
* The @media rule is used to define different style rules for different media types/devices. CSS Syntax
  ```
  @media not|only mediatype and (media feature) { CSS-Code;
  }
  *
  * Media type: Screen
  Used for computer screens. Incorrect:
  Not size: there is no media type size.
  Reference: CSS3 @media Rule; CSS Media Types

NEW QUESTION 7
You are developing a web form that includes the following HTML.
```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. Option A
B. Option B
C. Option C
D. Option D

Answer: A

Explanation:
* Input Text Object Properties include:
  value: Sets or returns the value of the value attribute of the text field
* Check if text is a null value or an empty string. Incorrect:
  not .get(): there is no input text object property get. Reference: HTML DOM Input Text Object

NEW QUESTION 8
HOTSPOT
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.)
<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 = decodeURIComponent(str);
        return true;
    });
</script>
</body>
</html>

A. Mastered
B. Not Mastered

Answer: A

Explanation:
* serialize()
    Encode a set of form elements as a string ready for submission. decodeURIComponent
* To decode the string, PHP offers the urldecode() function.
  echo urldecode('name%40website.com'); //restores "name@website.com" Reference: JavaScript decodeURIComponent() Function

NEW QUESTION 9
You are modifying a blog site to improve search engine readability.
You need to group relevant page content together to maximize search engine readability. Which tag should you use?

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

Answer: B

Explanation:
The <article> tag specifies independent, self-contained content.
An article should make sense on its own and it should be possible to distribute it independently from the rest of the site.
Potential sources for the <article> element: Forum post
Blog post News story Comment

NEW QUESTION 10
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?
NEW QUESTION 11
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";

Answer: A

Explanation:
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.

NEW QUESTION 12
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.

Answer: BD

Explanation:

**B:** Example (notice the web storage api upload.aspx):
```
<DOCTYPE html>
<html>
<head>
<title>Upload Files using XMLHttpRequest - Minimal</title>
</head>
<body>
<form id="form1" enctype="multipart/form-data" method="post" action="Upload.aspx"
><div class="row">
<label for="fileToUpload">Select a File to Upload</label><br />
<input type="file" name="fileToUpload" id="fileToUpload" onchange="fileSelected()"/>
</div>
<div id="fileName"></div>
<div id="fileSize"></div>
<div id="fileType"></div>
<div class="row">
<input type="button" onclick="uploadFile()" value="Upload" />
</div>
<div id="progressNumber"></div>
</form>
</body>
</html>
```

**D:**
* Because we're using XMLHttpRequest, the uploading is happening in the background. The page the user is on remains intact. Which is a nice feature to have if your business process can work with it.
* The XMLHttpRequest object has gotten a facelift in the Html5 specifications. Specifically the XMLHttpRequest Level 2 specification (currently the latest version) that has included the following new features:
Handling of byte streams such as File, Blob and FormData objects for uploading and downloading Progress events during uploading and downloading

Cross-origin requests
Allow making anonymous request - that is not send HTTP Referer
The ability to set a Timeout for the Request

NEW QUESTION 13
HOTSPOT
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.)

A. Mastered
B. Not Mastered

Answer: A

Explanation:

* Example:
httpRequest.onreadystatechange = function() {
  // inline function to check the status
  // of our request
  if (httpRequest.readyState === 4 &
  httpRequest.status === 200) {
    // this is called on every state change
    callback.call(httpRequest.responseXML);
  }
};
// call the callback function
}:
// call the function some_function2("text.xml", function() {
console.log(this);
}):
Reference: understand callback functions in Javascript

NEW QUESTION 14
HOTSPOT
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.
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.)
A. Mastered
B. Not Mastered

Answer: A

Explanation:
* border: 1px solid #f00;
a red border 1 pixel thick.
* background-image: linear-gradient(to bottom, green, black); Linear Gradients (goes down/up/left/right/diagonally).
Starts at the top with green and goes to bottom with black.
* margin: 10px 10px 10px 10px;
The CSS margin properties define the space around elements.
The top, right, bottom, and left margin can be changed independently using separate properties. Incorrect:
* border-color: red;
will not display any border
* Radial Gradients (defined by their center).

NEW QUESTION 15
DRAG DROP
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.)

A. Mastered
B. Not Mastered

Answer: A

Explanation:
The `<figure>` element
The `<figure>` element is intended to be used in conjunction with the `<figcaption>` element to mark up diagrams, illustrations, photos, and code examples (among other things).
Example:
```html
<figure>
  <img src="/macaque.jpg" alt="Macaque in the trees">
  <figcaption>A cheeky macaque, Lower Kintaganban River, Borneo. Original by <a href="http://www.flickr.com/photos/rclark/">Richard Clark</a></figcaption>
</figure>
```
Reference: The figure & figcaption elements

NEW QUESTION 16
You have the following HTML markup.

```html
<input name="object1x">
<input name="object1y">
<input name="object2x">
```

For all of the fields that have names ending with the letter x, you need to set the value to value1. Which code line should you use?

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

Answer: C

NEW QUESTION 17
You are developing an application that consumes an external web service. The web service returns the latest stock rate. The application has two methods:
*The `getResults()` method makes an AJAX web service request.
*The `ShowRate()` method displays the stock rate from the web service response.
The application has two JavaScript variables named `newStockRate` and `stockRate` to store the latest and previous stock rates, respectively.
Users must be able to compare the old stock rate with the new stock rate.
You need to ensure that `newStockRate` and `stockRate` retain their values for comparison. Which code segment should you use?
A. `var newStockRate;

    function getResults() {
        var stockRate;

        $.ajax ( {
            async: true,
            cache: true,
            type: 'POST',
            url: 'StockRates.asmx/GetRate',
            data: {'StockName': stockName },
            datatype: 'json',
            success: function (result) {
                newStockrate = result;
            },
            error: function (xhr, ajaxOptions, thrownError) {alert(thrownError) }
        });

        ShowRate(newStockrate);
    }

    function ShowRate(pStockRate) {
        alert(pStockRate + " " + stockRate);
    }

B. function getResults () {
    var stockRate;

    var newStockRate;

    $.ajax ( {
        async: true,
        cache: true,
        type: 'POST',
        url: 'StockRates.asmx/GetRate',
        data: {'StockName': stockName },
        datatype: 'json',
        success: function (result) {
            stockrate = result;
        },
        error: function (xhr, ajaxOptions, thrownError) {alert(thrownError) }
    });

    ShowRate(pStockRate);
}
function ShowRate(pStockRate) {
    alert(pStockRate + " " + stockRate);
C. `var newStockRate:
    function getResults () {
        var StockRate:

        $.ajax ( {
            async: true,
            cache: true,
            type: ‘POST’,
            url: ‘StockRates.asmx/GetRate’,
            data: { ‘StockName’: stockName },
            datat-type: ‘json’,
            success: function (result) {
                stockrate = result;
                }, error: function (xhr, ajaxOptions, thrownError) {alert(thrownError) }
        } );
    ShowRate(newStockRate);
}

D. `var StockRate:
    function getResults () {
        var newStockRate:

        $.ajax ( {
            async: true,
            cache: true,
            type: ‘POST’,
            url: ‘StockRates.asmx/GetRate’,
            data: { ‘StockName’: stockName },
            datat-type: ‘json’,
            success: function (result) {
                stockrate = result;
                }, error: function (xhr, ajaxOptions, thrownError) {alert(thrownError) }
        } );
    ShowRate(newStockRate);
    stockRate = newStockRate;

    function ShowRate(pStockRate) {
        alert(pStockrate + “ ” + stockRate);
    }

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

Answer: C

NEW QUESTION 18
You have the following code:

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You need to ensure that the content appears as shown in the following exhibit:

Which display attribute should you use for the red div?

A. grid
B. inline
C. block
D. flex

Answer: B

Explanation:
https://www.w3schools.com/cssref/pr_class_display.asp

NEW QUESTION 19
DRAG DROP
You need to write a callback function in JavaScript. You write the following code:

```javascript
function newOrder(orderId, orderShip, Target 1) {
    document.write("New order being processed");
}

newOrder("333", "EXPRESS", Target 2 {
    ...;
});
```

How should you complete the code? To answer, drag the appropriate code elements to the correct targets in the answer area. Each code element can 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.

<table>
<thead>
<tr>
<th>Code Elements</th>
<th>Answer Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>callback</td>
<td>Target 1:</td>
</tr>
<tr>
<td>callback()</td>
<td>Target 2:</td>
</tr>
<tr>
<td>function()</td>
<td>Target 3:</td>
</tr>
<tr>
<td>newOrder</td>
<td></td>
</tr>
<tr>
<td>typeOf</td>
<td></td>
</tr>
<tr>
<td>var</td>
<td></td>
</tr>
</tbody>
</table>

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Target 1: callback
Target 2: callback()
Target 3: function()

References: https://www.impressivewebs.com/callback-functions-javascript/

NEW QUESTION 20
DRAG DROP
You have the following markup.

```html
<input type="button" value="CancelButton" Target1="Target2.Target3 TARGET1" />
```
You need to ensure that when the button is clicked, a message appears that displays the value of the button. How should you complete the code? To answer, drag the appropriate code elements to the correct targets in the answer area. Each code element may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

**Answer:** A

**Explanation:**

- Target 1: `onclick`
- Target 2: `alert`
- Target 3: `this`
- Target 4: `value`

NEW QUESTION 21

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