

- **Vendor: Microsoft**
- **Exam Code: 70-480**
- **Exam Name: Programming in HTML5 with JavaScript and CSS3 Exam**
- **Question 31 -- Question 60**

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QUESTION 31

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

Answer: ADE

QUESTION 32

Drag and Drop Question

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.)

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

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

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

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

Answer:

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

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

```
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>
```

QUESTION 33

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

Answer: BC

QUESTION 34

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>

Answer: B

Explanation:

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

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

QUESTION 35

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) {
      ctrl.disabled = true;
    }
  </script>
</body>
```

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

Answer: A

QUESTION 36

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

Answer: A

QUESTION 37

Drag and Drop Question

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.)


```
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>
```

Answer:

```
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 canvas = document.getElementById('mycanvas');
        var context = canvas.getContext('2d');
        context.fillStyle = "rgb(255, 0, 0)";
        context.fillRect(50, 50, 100, 100);
    </script>
</body>
</html>
```

QUESTION 38

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>

Answer: A

QUESTION 39

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>

Answer: C

QUESTION 40

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

Answer: A

QUESTION 41

Drag and Drop Question

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.)

```
<input
  type="
  min="
  max="
  step="
  value="
/>
```

Answer:

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

QUESTION 42

You are creating a JavaScript object that represents an employee.

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

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

Which code segment should you use?

- ☐ 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

Answer: D

QUESTION 43

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

You have the following requirements:

- Add a drop shadow that is one inch below the text in the paragraph
- Set the radius of the drop shadow to five pixels

You need to style the paragraphs to meet the requirements.

Which CSS style should you use?

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

Answer: B

Explanation:

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

Note

Syntax

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

Note: The text-shadow property attaches one or more shadows to text. The property is a comma-

separated list of shadows, each specified by 2 or 3 length values and an optional color. Omitted lengths are 0.

* h-shadow

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

* v-shadow

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

* blur

Optional. The blur distance

* color

Optional. The color of the shadow.

QUESTION 44

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

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

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

Answer: A

Explanation:

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 45

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

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

Which tag should you use?

- A. <article>
- B. <table>
- C. <div>
- D.

Answer: A

Explanation:

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

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

Potential sources for the <article> element:

Forum post

Blog post

News story

Comment

QUESTION 46

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

the following HTML.

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

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

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

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

Answer: AB

Explanation:

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

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

Note:

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

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

Syntax

Set the top property:

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

Where:

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

QUESTION 47

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

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

Which tag should you use?

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

Answer: A

Explanation:

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

QUESTION 48

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

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

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"/>`

Answer: C

QUESTION 49

You are developing an HTML5 web application and are styling text.
You need to use the text-transform CSS property.
Which value is valid for the text-transform property?

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

Answer: A

QUESTION 50

You are developing an HTML5 web application and are styling text.
You need to use the text-transform CSS property.
Which value is valid for the text-transform property?

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

Answer: C

QUESTION 51

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

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

Answer: B

QUESTION 52

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

- A. ``
- B. `<nav>`
- C. `<code>`
- D. `<section>`

Answer: D

Explanation:

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

QUESTION 53

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

Which value is valid for the text-transform property?

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

Answer: C

QUESTION 54

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

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

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

Answer: A

QUESTION 55

Drag and Drop Question

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.)

user agent style sheets

user normal style sheets

author normal style sheets

author important style sheets

user important style sheets

Answer:

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

QUESTION 56

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

Answer: C

QUESTION 57

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.

Answer: AE

QUESTION 58

Hotspot Question

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.

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.

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.

QUESTION 59

Hotspot Question

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.

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

Answer:

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

QUESTION 60

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

Answer: C

Explanation:

* -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.

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