

Question 1

HOTSPOT -

You are designing a web page that contains a blue button. When the button is pressed, it should call a function that displays the message "Welcome!". When the cursor hovers over the button, the button should turn red. When the cursor leaves the button, the button should revert back to its original color of blue.

You want to complete the markup using the appropriate HTML events.

How should you complete the markup? To answer, select the appropriate event in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
<!DOCTYPE html>
<html>
<head>
  <script>

    function showRed()
    {
      var changer = document.getElementById("changer");
      changer.style.backgroundColor = "red";
    }

    function showBlue()
    {
      var changer = document.getElementById("changer");
    }

    function notify()
    {
      alert("Welcome!");
    }
  </script>
</head>
<body>
```

`<input id="changer" type="button"`

▼
onchange
onmouseover
onmouseout
onclick

`= "notify();"

▼
onmouseover
onmousedown
onmouseout
onclick

= "showRed();"`

Question 2

DRAG DROP -

You are creating a web page with a script. The script will insert the window's location inside the page's input element. How should you complete the code? To answer, drag the appropriate code segment to the correct locations. 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:

Code Segments

window

location

document

getElementById

Answer Area

```
<!DOCTYPE html>
<html>
<body>

  <input id="url" type="input" />

  <script>
    [ ] . [ ] ("url").valu
  </script>
</body>
</html>
```

Question 3

You are designing a web page with a script that must dynamically change the content of a paragraph element to display the value returned by the function

randomQuote()

You have created the following code. Line numbers are included for reference only.

```
01 <!DOCTYPE html>
02 <html>
03 <body>
04 <p id="tester" onclick="changeText()">Click to change the content.</p>
05 <input type="button" value="Change Text" onclick="changeText()" />
06 <script>
07 function changeText() {
08
09 }
10 </script>
11 </body>
12 </html>
```

Which code segment should you use at line 08?

- A. document.getElementById("tester").value = randomQuote();
- B. document.getElementById("tester").title = randomQuote();
- C. document.getElementById("tester").innerHTML = randomQuote();
- D. document.getElementById("tester").script = randomQuote();

Question 4

HOTSPOT -

You are designing a web page that contains a list of animals. The web page includes a script that outputs animals from a list.

You create the following HTML to test the script:

```
<p>Animals</p>
<ul>
  <li>Dog</li>
  <li><b>Cat</b></li>
  <li>Lion</li>
</ul>
<p>Click the button to display the animals.</p>
<button onclick="showList()">Show List</button>
<div id="list"></div>
```

You need to create a function that will display the list of animals, including any formatting, in the div element.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
function showList() {
  var list = document.
  for (var i = 0; i < list.length; i++) {
    document
    ("list").
    +=1;
```

getElementsByTagName("li")
getElementsByTagName("ul")
getElementsByClassName("li")
getElementByClassName("ul")

innerText
innerHTML
textContent

Question 5

You are creating a dynamic HTML page by using JavaScript.

Your page has an image of the sun. When the user's mouse pointer moves across the image of the sun, the image should change to the image of the moon.

When the user's mouse pointer is no longer over the image should change back to the image of the sun.

You need to write the code for the image swap.

Which two events must you program for? (Choose two.)

- A. onmouseup
- B. onmouseout
- C. onmousedown
- D. onmouseover
- E. onmouseenter

Question 6

You are writing a JavaScript program for Contoso Suites that will output HTML.

You need to output each room type on a new line using the correct method.

You create the following code for the function. Line numbers are included for reference only.

```

01 <html>
02 <body id="body">
03 <p id="para"><br></p>
04 <script>
05     var line = document.getElementById("para");
06     var rooms = ["Single", "Double", "Triple", "Suite"];
07     var i = 0;
08     for(i=0;i<rooms.length;i++){
09
10     }
11 </script>
12 </body>
13 </html>

```

You need to insert the correct code at Line 9. Which line should you use?

- A. document.getElementById("body").innerHTML = rooms[i] + line.innerHTML;
- *B. document.getElementById("para").innerHTML += rooms[i] + line.innerHTML;*
- C. document.getElementById("para").innerHTML += i + rooms + line.innerHTML;
- D. document.getElementById("body").innerHTML += rooms + i;

Question 7

DRAG DROP -

You are creating a web page that requests a username.

You create the following HTML form:

```

<form id="credentials" action="#" method="get">
    <p>Username: <input type="text" id="username" /></p>
    <input type="button" onclick=" getUsername()" value="Submit">
</form>

```

You need to write a function that retrieves the username from the form.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each function 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Code Segments

document	firstChild	forms	HTMLDocument
innerHTML	value	window	

Answer Area

```
function getUsername() {  
    var username =  
    alert('Welcome, ' +  
}
```

Answer Area.

<script>

Function getUsername(){

```
var username =  .  .credentials.username. ;  
alert("Welcome, " + username);  
}
```

</script>

Question 8

DRAG DROP -

You are using JavaScript to create a calculator.

You create the following HTML. Line numbers are included for reference only.

```
01 <form id="calculator">  
02   <input type="text" id="a" />  
03   <input type="text" id="b" />  
04   <input type="text" id="result" />  
05   <input type="button" onclick="add()" value="+" />  
06 </form>
```

You must create a function named add() that adds the values in the a and b input elements and displays the result in the result input element.

You define the following function in JavaScript:

```
function add() {  
}
```

You need to complete the body of the function.

Which three code segments should you use to develop the solution? To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.

NOTE: Each correct selection is worth one point.

Select and Place:

Code Segments

```
var b = eval(document.getElementById("b").value);
```

```
document.getElementById("result").value = a + b;
```

```
var a = eval(document.getElementById("a").value);
```

```
var result = eval(document.getElementById("result"));
```

```
var b = eval(document.getElementById("b"));
```

```
var a = eval(document.getElementById("a"));
```

```
var result = a + b;
```



Answer Area

Question 9

HOTSPOT -

For each of the following segments, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
When using a GET request with a form, the data length is restricted.	☐	☐
Only GET requests should be used when handling sensitive form data.	☐	☐
Form POST requests are cached.	☐	☐
Form POST requests will always remain in the browser history.	☐	☐

Question 10

You are creating a web page that allows customers to choose how hot their spice is. If they choose spicy, a warning should be displayed.

You create the following form. Line numbers are included for reference only.

```

01 <form name = "orderForm" action = "#" method = "post">
02   <select name = "heatIndex" required>
03     <option>Mild</option>
04     <option>Medium</option>
05     <option>Spicy</option>
06   </select>
07   <button onclick = "checkWarning()">Order</button>
08 </form>

```

You create the following JavaScript code to display the warning.

```

09 function checkWarning() {
10   var option = document.forms.orderForm["heatIndex"];
11   if (option == "Spicy") {
12     alert("Spicy food: Good Luck!");
13   }
14 }

```

When you choose spicy and click Order, the warning fails to display.

You need to solve this problem.

What should you do?

- A. Change line 07 to <button onchange = "checkWarning();">Order</button>
- B. Change line 07 to <button onclick = "checkWarning;">Order</button>
- C. Change line 10 to var option.value = document.forms.orderForm["heatIndex"];
- D. Change line 10 to var option = document.forms.orderForm["heatIndex"].value;

Question 11

DRAG DROP -

You are creating a web page that tests a user's ability to accurately type text. The validation should be case-insensitive.

How should you complete the code? To answer, drag appropriate functions to the correct locations. Each function 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:

Code Segments

value

innerHTML

toLowerCase()

Answer Area

```
<!DOCTYPE html>
<html>
<head>
  <script>
    function validate() {
      var input = document.getElementById("tester").  ;
      var text = document.getElementById("userText").  ;
      if(input.  == text.  )
      {
        alert("Success");
      }
    }
  </script>

</head>

<body>

  <p id="userText">When in the course of human events...</p>
  <input type="input" id="tester"; />
  <button onclick="validate()">Validate</button>

</body>

</html>
```

Question 12

HOTSPOT -

You evaluate the following code:

```
function change(student, course)
{
  student = "JavaScript Student";
  course.name = "JavaScript";
  course.grade = 100;
}

var sampleCourse = { "name": "HTML", "grade": 90 };
var sampleStudent = "HTML Student";

change(sampleStudent, sampleCourse);
console.log(sampleStudent, sampleCourse.name, sampleCourse.grade);
```

You need to determine the values of sampleStudent, sampleCourse.name, and sampleCourse.grade that are output by console.log().

What are the final values for the three variables? To answer, select the appropriate values in the answer area.

Hot Area:

Answer Area

`sampleStudent =`

	▼
HTML Student	
JavaScript Student	

`sampleCourse.name =`

	▼
HTML	
JavaScript	

`sampleCourse.grade =`

	▼
90	
100	