EXΛMTOPICS

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Topic 1 - Single Topic

Question #1   *Topic 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 ▼ ] ="notify();" [ ▼ ] ="showRed();"
                                         onchange            onmouseover
                                         onmouseover         onmousedown
                                         onmouseout          onmouseout
                                         onclick             onclick
```

Question #2   *Topic 1*

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   *Topic 1*

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   *Topic 1*

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. [ ▼ ]
                        getElementsByTagName("li")
                        getElementsByTagName("ul")
                        getElementsByClassName("li")
                        getElementByClassName("ul")

    for (var i = 0; i < list.length; i++) {

    document [ ▼ ]                        ("list"). [ ▼ ]        +=li
            getElementsByTagName("li")               innerText
            getElementsByTagName("ul")               innerHTML
            getElementsByClassName("li")             textContent
            getElementByClassName("ul")
```

Question #5   *Topic 1*

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. onmosedown

    D. onmouseover

    E. onmouseenter

Question #6   *Topic 1*

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   *Topic 1*

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, ' +
}
```

Question #8   Topic 1

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   **Answer Area**

```
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;
```

Question #9   Topic 1

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																Topic 1

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	Topic 1

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   Topic 1

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 |

Question #13   Topic 1

DRAG DROP -

A JavaScript array is initialized as follows:

```
var array = [20, 40, 60, 80];
```

You write the following code to manipulate the array:

```
array.shift();
array.pop();
array.push(10);
array.unshift(100);
```

You need to determine the contents of the array.

Which four elements does the array contain in sequence? To answer, move the appropriate elements from the list of elements to the answer area and arrange them in the correct order.

Select and Place:

Elements   **Answer area**

| 10 |
| 20 |
| 40 |
| 60 |
| 80 |
| 100 |

Question #14   Topic 1

HOTSPOT -

You need to evaluate the following code segment. Line numbers are included for reference only.

```
01 var n;
02 console.log(typeof n);
03 var a = "3.4";
04 console.log(typeof a);
05 var textArray = ["Welcome Back", "Enter a Name", "Incorrect Answer"];
06 console.log(typeof textArray);
07 var c = 2.4;
08 console.log(typeof c);
09 var tag = null;
10 console.log(typeof tag);
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

Hot Area:

Answer Area

What does the `console.log` function on line 02 write to the console?

▼
string
array
object
number
undefined

What does the `console.log` function on line 04 write to the console?

▼
string
array
object
number
undefined

What does the `console.log` function on line 06 write to the console?

▼
string
array
object
number
undefined

What does the `console.log` function on line 08 write to the console?

▼
string
array
object
number
undefined

What does the `console.log` function on line 10 write to the console?

▼
string
array
object
number
undefined

Question #15   *Topic 1*

You are writing an engineering application. You need to create a function that will round numbers to 3 or more decimal places.

You need to create a function that receives the following two parameters:

⇨ The value parameter is the number to be formatted

⇨ The digits parameter is the number of digits to display

The function must return the value with the number of digits specified.

Which function should you use?

```
function significance(value, digits) {
    return value.toPrecision(digits);
}
```
A.

```
function significance(value, digits) {
    return value.toString(digits);
}
```
B.

```
function significance(value, digits) {
    return value.toFixed(digits);
}
```
C.

```
function significance(value, digits) {
    return value.valueOf(digits);
}
```
D.

Question #16   *Topic 1*

HOTSPOT -

You analyze the following code fragment. Line numbers are included for reference only.

```
01 "use strict";
02 var val1 = 25;
03 var val2 = 4;
04 function multiply() {
05     return val1 * val2;
06 }
07
08 console.log("Global multiply returns() : " + multiply());
09 multiply();
10
11 function getProduct() {
12     var val1 = 2;
13     var val2 = 3;
14
15     function multiply() {
16         return val1 * val2;
17     }
18
19     return multiply();
20 }
```

Hot Area:

Answer Area

	Yes	No
The call to the `multiply` function on line 09 returns 100.	○	○
The call to the `multiply` function on line 19 returns 100.	○	○

Question #17   Topic 1

HOTSPOT -

You are creating a JavaScript function that returns a date the specified number of months in the future of the current date.

The function must meet the following requirements:

Accept a number that represents the number of months to add or subtract from the current date.

Return the current data adjusted by the number of months passed into the function.

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 adjustMonth(value) {
```

▼
var date = new Date();
var date = Date();
var date = new Date;
var date = Date;

▼
var month = date.getMonth;
var month = getMonth();
var month = date.getMonth();
var month = getMonth;

▼
date.setMonth(month + value);
setMonth(month + value);

```
    return date ;

}
```

Question #18   Topic 1

HOTSPOT -

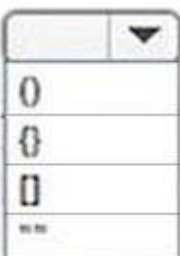You work as a JavaScript developer for Adventure Works. You are writing a simple script that performs the following actions:

☞ Declares and initializes an array

☞ Fills the array with 10 random integers

☞ Adds every other number starting with the first element

How should you complete the code? To answer, select the appropriate code segments in the answer area.
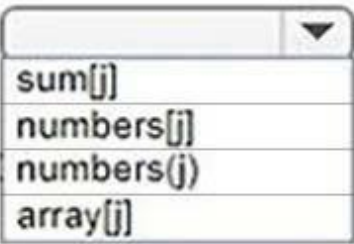
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
var numbers = [ ▼ ]
                 0
                 {}
                 []
                 ..

for (var i = 0; i < 10; i++) {
    numbers. [ ▼ ] (Math.round(Math.abs(Math.random() * 10)));
              pop
}           push
var sum = 0; sort
             splice

for (var j = 0; j < 10; j = [ ▼ ] ) {
                             j++
                             j+1
                             j+2
                             j--

    sum += [ ▼ ] ;
           sum[j]
}          numbers[j]
           numbers(j)
           array[j]

console.log(sum);
```

Question #19   Topic 1

HOTSPOT -

You are writing a JavaScript program for Blue Yonder Airlines. The program stores various information about the airline's flights.

The program has initialized the following variables:

```
01 var flightDestination = "Denver";
02 var flight = 5;
03 var roundTrip = 2489.58;
04 var onTime = true;
05 var id = flight + flightDestination;
```

You need to determine the data type of the code segment based on initialization and the assignment of the variables. Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

What is the data type for line 01?

Number
String
Boolean
Null
Undefined

What is the data type for line 03?

Number
String
Boolean
Null
Undefined

What is the data type for line 04?

Number
String
Boolean
Null
Undefined

What is the data type for line 05?

Question #20   *Topic 1*

HOTSPOT -

You are planning to use the Math object in a JavaScript application. You write the following code to evaluate various Math functions:

```
var ceil = Math.ceil(100.5);
var floor = Math.floor(100.5);
var round = Math.round(100.5);
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
ceil  =  [        ▼ ]
         | 100       |
         | 101       |


floor =  [        ▼ ]
         | 100       |
         | 101       |


round =  [        ▼ ]
         | 100       |
         | 101       |
```

Question #21   *Topic 1*

HOTSPOT -

You are creating JavaScript code that manipulates dates. You want to initialize a Date object with the date January 1, 2017 by using the year, month, and date parameters.

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

Hot Area:

Answer Area

```
var date = new Date(  [       ▼ ]  ,  [         ▼ ]
                      | 17      |     | 0         |
                      | 2017    |     | 1         |
                                      | Jan       |
                                      | January   |
```

Question #22 Topic 1

HOTSPOT -

Your instructor has asked you to write a program that uses simple rules to help determine if a person should take the train, drive their car, or ride a bike, depending on the conditions of the weather and the amount of gas in the car's tank.

The program has the following requirements:

▻ When the temperature is above 65 degrees and it is not raining, the person should be told to ride their bike.

▻ When it is raining, the person should be told to drive their car.

If their car has half a tank of gas or less, they should be told to take the train.

•

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

Hot Area:

Answer Area

```
if(temperature > 65  [  ▼ ]  !raining)
                      &&
                      ==
                      ||
                      &
                      >

         advice = "Ride Bike";
    else if(fuelTank  [  ▼ ]  .5)
                      ==
                      ||
                      <=
                      &&
                      >

             advice = "Take Train";
      else
             advice = "Drive your car";
```

Question #23	Topic 1

HOTSPOT -

You are using JavaScript to create a function that calculates admission price.

The function must meet the following requirements:

▭ The function accepts the age of the customer as a parameter

▭ A customer who is less than 5 years old gets in free

▭ A customer who is 65 years old or older gets in free

▭ A customer who is 5 years old to 17 years old, pays $10 USD

▭ All other customers pay $20 USD

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 ticketPrice(age) {
        var price = 20;
```
```
                                        ▼
        if (age <= 5 && age > 65) {
        if (age < 5 && age >= 65) {
        if (age <= 5 || age > 65) {
        if (age < 5 || age >= 65) {
            price = 0;
    }
```
```
                                        ▼
        if (age >= 5 && age < 18) {
        if (age > 5 && age <= 18) {
        if (age >= 5 || age < 18) {
        if (age > 5 || age <= 18) {
            price = 10;
    }
    return price;
```

Question #24   Topic 1

HOTSPOT -

The ABC company offers a mid-week discount of 10% on Wednesdays.

You need to write a JavaScript function that meets the following requirements:

☞ Accepts the day of the week as a string

☞ Returns the appropriate discount

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

```
01 function getDiscount(day) {
02     var discount = 0;
03
04
05         discount = .1;
06         break;
07
08         discount = 0;
09         break;
10     }
11     return discount;
12 }
```

You must complete the code at lines 03, 04, and 07.

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

```
01 function getDiscount(day) {
02     var discount = 0;

03     [ _____ ▼ ]
          case (day) {
          default (day) {
          case (default) {
          switch (day) {

04            [ _____ ▼ ]
                 case "Wednesday":
                 default:
                 case default:
                 switch "Wednesday"
05                 discount = .1;
06                 break;
07            [ _____ ▼ ]
                 case "Wednesday":
                 default:
                 case default:
                 switch "Wednesday":
08                 discount = 0;
09                 break;
10         }
11     return discount;
12 }
```

Question #25   Topic 1

DRAG DROP -

You need to write a loop that will traverse the length of an array to find the value orange. If an array element value is null, the code should immediately go to the next element. When the value is found, the loop should exit.

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

Keywords

| for | break | continue | while |

| do |

Answer Area

```
<!DOCTYPE html>
<html>
<head>
<script>
    function doWork() {
        var list = ['apple', 'pear', null
        [.............]  (i = 0; i < list.le
            if(list[i] == null)
                [.............]
            if(list[i] == 'orange') {
                alert('found');

        [.............]
        }
        console.log(list[i]);
    }
}
</script>
</head>
<body>
    <input type="button" value="test" oncli
</body>
</html>
```

Question #26   Topic 1

DRAG DROP -

Your instructor has asked you to implement code that would display a two-dimensional array of any size inside a <div> tag.

You write the following code:

```
var div = document.getElementById('board');
var board = [['-', 'X', '-','X'], ['-', 'O', 'X','O'], ['X', 'O', '-','O']];
```

You need to complete the code.

Which three 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.

Select and Place:

Code Segments   **Answer Area**

```
    for(var k = 0; k < board[0].length; k++)
        div.innerHTML = div.innerHTML + board[i][j] + ' ';
```

```
for(i < board.length; i = i + 1){
```

```
    for (var j = 0; j < board[0].length; j = j + 1)
        div.innerHTML = div.innerHTML + board[i][j] + ' ';
```

```
for (var i = 0; i < board.length; i++) {
```

```
    div.innerHTML = div.innerHTML + '<br>';
}
```

```
    for(var j = i; j < board[0].length; j++)
        div.innerHTML = div.innerHTML + board[i][j] + ' ';
```

Question #27   *Topic 1*

HOTSPOT -

You are using JavaScript to write a safe root math utility that has the following requirements:

Given the function safeRoot(a, b):

If the radicand (a) is non-negative, return Math.pow (a, 1/b);

Otherwise,

If the index (b) is divisible by 2, then return text indicating the result is imaginary.

Otherwise return -Math.pow (-a, 1/b)

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 safeRoot(a, b) {
```

▼
if (a >= 0) {
if (b % 2 == 0) {

```
    return Math.pow(a, 1 / b);
```

▼
} else if (b % 2 == 0) {
} else if (a >= 0) {
} else {
if (b % 2 == 0) {

▼
} else if (b % 2 == 0) {
} else if (a >= 0) {
if (a >= 0) {
if (b % 2 == 0) {

```
        return "Result is an imaginary number";
```

▼	'b);
} else if (b % 2 == 0) {
} else if (a >= 0) {
} else {
} if (a >= 0) {
} if (b % 2 == 0) {

```
    }
}
```

Question #28   Topic 1

HOTSPOT -

You are creating a function named countdown. The function accepts a single parameter, start, and displays a countdown from that number down to zero in increments of one.

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

Hot Area:

Answer Area

```
function countdown(start) {
    for (                              )  {

            console.log(i);
    }
}
```

var i = start;	i<=0;	++i
var i == start;	i<0;	+i
var i <= start;	i>0;	--i
var i < start;	i>=0;	-i

Question #29   Topic 1

HOTSPOT -

You are creating a calendar application. You need to ensure that the code works correctly for all months of the year.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
var daysInMonth;

var month;

month = new Date().getMonth();
```

| switch (month) { |
| case (month) { |
| break { |

```
        case 1:
                daysInMonth = 28; // for February, ignore leap years
```

	break;
case 3:	continue;
case 5:	while (month);
case 8:
case 10:

```
                daysInMonth = 30;
```

| break; |
| continue; |
| while (month); |

Question #30   *Topic 1*

HOTSPOT -

You are creating a function that does safe division.

The function has the following requirements:

▭ The function receives two parameters for the numerator and denominator.

▭ If the denominator is zero, the function must return false.

▭ If the denominator is not zero, the function must return true.

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

```
01 function isSafeDivide(numerator, denominator) {
02     if (denominator = 0) {
03         return false;
04     } else {
05         return true;
06     }
07 }
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
The function will always return false.	◯	◯
The operator at line 02 should be !=	◯	◯

Question #31   *Topic 1*

HOTSPOT -

Variable x has a value of 5. Variable y has a value of 7.

For each of the following expressions, select True if the statement evaluates to true. Otherwise, select False.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	True	False
x < 7 && y > 6	◯	◯
x == 6 || y == 6	◯	◯
x !== 7	◯	◯
!(x == y)	◯	◯

Question #32   Topic 1

DRAG DROP -

You are developing a web page that uses JavaScript. The script needs to display information to the user using a popup box.

Match each function that displays a popup box with its appropriate scenario.

To answer, drag the appropriate function from the column on the left to its appropriate scenario on the right. Each function may be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

Select and Place:

Function

| alert | | confirm |

| prompt |

Answer Area

Displ
Displ
Displ

Question #33   Topic 1

HOTSPOT -

You are designing a function that allows you to perform unit tests on other functions in a library. You will invoke each library function by using the eval JavaScript function. If an exception occurs when invoking a function, you want to display a message box with the following message:

The function does not exist.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
function unitTest(expression)
{
    ┌──────────────▼──┐
    │ catch           │
    │ finally         │
    │ try             │
    └─────────────────┘
    {
        eval(expression);
    }
    ┌──────────────▼──┐ (err)
    │ catch           │
    │ finally         │
    │ try             │
    └─────────────────┘
    {
        alert("The function does not exist.");
    }
```

Question #34 *Topic 1*

This question requires that you evaluate the underlined text to determine if it is correct.

You review the following JavaScript code:

```
var x = 15;
x %= 5;
```

When this code executes, the value of x is 0.

Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change is needed
- B. the value of x is 3
- C. the value of x is 5
- D. the value of x is undefined

Question #35 *Topic 1*

You are creating a JavaScript program for an accounting system.

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

```
01 var firstName = "Jo";
02 var lastName = "Berry";
03 var while = Date.now();
04 var color = "Red";
05 var break = "No";
```

You evaluate the code to ensure that it follows JavaScript best practices.

Which line should you change?

- A. 01
- B. 02
- C. 03
- D. 04
- E. 05

Question #36   *Topic 1*

You are writing a function that calculates the remainder for integer division. The function receives two parameters, a and b, and must return the remainder that is left over when the integer a is divided by the integer b.

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

```
01 function remainder(a, b) {
02
03
04 }
```

You want to complete the function for lines 02 and 03.

Which two sets of code segments should you use? Each correct answer presents a complete solution. (Choose two.)

```
02 a = a / b - a;
03 return a;
```
A.

```
02 b = b % a;
03 return b;
```
B.

```
02 b %= a;
03 return b;
```
C.

```
02 a %= b;
03 return a;
```
D.

```
02 a = a % b;
03 return a;
```
E.

```
02 b = b / a - b;
03 return b;
```
F.

Question #37   *Topic 1*

HOTSPOT -

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

External JavaScript files can be cached.

Internal JavaScript can be placed between the `<head>` tags.

Placing your scripts at the bottom of the page body lets the browser load the other elements of the page first.

Internal JavaScript uses the tag `<script src="internal" type="text/javascript">`.

Question #38   *Topic 1*

HOTSPOT -

You are evaluating a colleague's code to ensure it meets best practices.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
The characters // are used to mark a single line as a comment.	○	○
totalscore is in the correct format according to standard naming conventions for JavaScript.	○	○
~score can be used as a variable name.	○	○
switch can be used as a variable name.	○	○

Question #39   *Topic 1*

DRAG DROP -

Evaluate the following code. Line numbers are included for reference only.

```
01 var n = 50;
02 var c = n + 5;
03 var a = n % 2;
04 var d = c / 11;
05 n = d * 2;
07 console.log(n, c, a, d);
```

What is the value of each variable at line 07? To answer, drag the appropriate value to the correct variable. Each value 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:

Values

0	5	10	55	100	110	25	1

Answer Area

n [   ]

c [   ]

a [   ]

d [   ]