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Vendor:Microsoft

Exam Code:98-382

Exam Name:Introduction to Programming Using
JavaScript

Version:Demo

QUESTION 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;
```

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

```
    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;  
}
```

Correct Answer:

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;  
}
```

References: https://www.w3schools.com/jsref/jsref_operators.asp

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").value = [ ] . [ ] .href;
  </script>
</body>
</html>
```

Correct Answer:

Code Segments

[]
[]
[]
[]

Answer Area

```
<!DOCTYPE html>
<html>
<body>
  <input id="url" type="input" />
  <script>
    document . getElementById ("url").value = window . location .href;
  </script>
</body>
</html>
```

References: https://www.w3schools.com/js/js_window_location.asp

QUESTION 3

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.	<input type="radio"/>	<input type="radio"/>
The operator at line 02 should be !=	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

	Yes	No
The function will always return false.	<input type="radio"/>	<input checked="" type="radio"/>
The operator at line 02 should be !=	<input type="radio"/>	<input checked="" type="radio"/>

References: https://www.w3schools.com/js/js_comparisons.asp https://www.w3schools.com/jsref/jsref_if.asp

QUESTION 4

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?

	▼
Number	
String	
Boolean	
Null	
Undefined	

Correct Answer:

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?

	▼
Number	
String	
Boolean	
Null	
Undefined	

References: https://www.w3schools.com/js/js_datatypes.asp

QUESTION 5

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 Order
- B. Change line 07 to Order
- C. Change line 10 to var option.value = document.forms.orderForm["heatIndex"];
- D. Change line 10 to var option = document.forms.orderForm["heatIndex"].value;

Correct Answer: D

References: https://www.w3schools.com/jsref/coll_doc_forms.asp

QUESTION 6

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 }

Correct Answer:

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 }

References: https://www.w3schools.com/jsref/jsref_switch.asp

QUESTION 7

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.

Correct Answer:

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 8

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);
    }
    

|         |   |
|---------|---|
|         | ▼ |
| catch   |   |
| finally |   |
| try     |   |


    (err)
    {
        alert("The function does not exist.");
    }
}
```

Correct Answer:

Answer Area

```
function unitTest(expression)
{
  

|         |   |
|---------|---|
|         | ▼ |
| catch   |   |
| finally |   |
| try     |   |


  {
    eval(expression);
  }

|         |         |
|---------|---------|
|         | ▼ (err) |
| catch   |         |
| finally |         |
| try     |         |


  {
    alert("The function does not exist.");
  }
}
```

References: https://www.w3schools.com/jsref/jsref_try_catch.asp

QUESTION 9

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

Correct Answer: BD

References: [References: https://www.w3schools.com/jsref/dom_obj_event.asp](https://www.w3schools.com/jsref/dom_obj_event.asp)

QUESTION 10**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

	Yes	No
External JavaScript files can be cached.	<input type="radio"/>	<input type="radio"/>
Internal JavaScript can be placed between the <head> tags.	<input type="radio"/>	<input type="radio"/>
Placing your scripts at the bottom of the page body lets the browser load the other elements of the page first.	<input type="radio"/>	<input type="radio"/>
Internal JavaScript uses the tag <code><script src="internal" type="text/javascript"></code> .	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

	Yes	No
External JavaScript files can be cached.	<input checked="" type="radio"/>	<input type="radio"/>
Internal JavaScript can be placed between the <head> tags.	<input checked="" type="radio"/>	<input type="radio"/>
Placing your scripts at the bottom of the page body lets the browser load the other elements of the page first.	<input checked="" type="radio"/>	<input type="radio"/>
Internal JavaScript uses the tag <code><script src="internal" type="text/javascript"></code> .	<input type="radio"/>	<input checked="" type="radio"/>

References: <http://knowledgehills.com/javascript/external-javascript-syntax-disadvantages.htm>
https://www.w3schools.com/js/js_where.asp https://www.w3schools.com/tags/att_script_src.asp

QUESTION 11**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 =

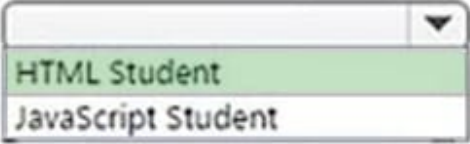
	▼
HTML	
JavaScript	


sampleCourse.grade =

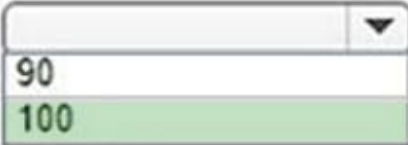
	▼
90	
100	

Correct Answer:

Answer Area

`sampleStudent =` 

`sampleCourse.name =` 

`sampleCourse.grade =` 

References: https://www.w3schools.com/js/js_output.asp

QUESTION 12

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.)

- A.

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

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

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

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

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

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

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

F. Option F

Correct Answer: E

References: https://www.w3schools.com/js/js_arithmetic.asp