CS134 Web Site Design & Development

Quiz2

Name: ________________________   Score: _____________________

Email: ________________________

I. Multiple Choice Questions (2 points each, total 22 points)

1. Where is the correct place to insert a JavaScript?   [Answer: ____]
   a. The <body> section
   b. The <head> section
   c. In any external file
   d. All of the above

2. What is the correct syntax for referring to an external script called "myscript.js"?   [Answer: ____]
   a. <script name="myscript.js">
   b. <script href="myscript.js">
   c. <script src="myscript.js">
   d. None of the above

3. How do you write "Hello World" in an alert box?   [Answer: ____]
   a. alertBox("Hello World")
   b. alert("Hello World")
   c. msgBox("Hello World")
   d. alertBox="Hello World"

4. How do you write a conditional statement for executing some statements only if "i" is equal to 5?   [Answer: ____]
   a. if i=5 then
   b. if i=5
   c. if (i==5)
   d. if i=5 then

5. How many different kinds of loops are there in JavaScript? [Answer: ____]
   a. Four. The "for" loop, the "while" loop, the "do...while" loop, and the "loop...until" loop
   b. Two. The "for" loop and the "while" loop
   c. One. The "for" loop
   d. None of the above
6. How does a "for" loop start?  
   a. for (i = 0; i <= 5)  
   b. for (i <= 5; i++)  
   c. for i = 1 to 5  
   d. for (i = 0; i <= 5; i++)  
   [Answer: ____]

7. Which one of the following is a legal JavaScript comment?  
   a. <!--This is a comment-->  
   b. //This is a comment  
   c. 'This is a comment  
   d. /* This is a comment */  
   [Answer: ____]

8. What is the correct way to create a JavaScript array with 3 items?  
   a. var txt = new Array="tim","kim","jim"  
   b. var txt = new Array("tim","kim","jim")  
   c. var txt = new Array:1="tim":2="kim":3="jim"  
   d. var txt = new Array(1:"tim",2:"kim",3:"jim")  
   [Answer: ____]

9. Which of the statements about JavaScript function is correct?  
   a. To keep the browser from executing a script when the page loads, you can put your script into a function.  
   b. A function contains code that will be executed when an event happen.  
   c. The places where you can call a JavaScript function are limited to 1. between <script> and </script>, 2. inside an external JavaScript file, 3. inside a form (<form>).  
   d. Functions can be defined only in the <head> section of a document.  
   [Answer: ____]

10. Which HTML element is used to create a click button?  
    a. <input>  
    b. <click>  
    c. <formtype>  
    d. <clickbutton>  
    [Answer: ____]

11. Which of the following lines of code correctly displays a prompt box with the message “What is your name?” and an empty textbox where the user may type the name, and then stores the user’s entry in a variable named “username”?  
    a. username = prompt(“What is your name?”)  
    b. username = prompt(“What is your name?”, input)  
    c. prompt(“What is your name?”, username)  
    d. prompt(username, “What is your name?”)  
    [Answer: ____]
II True or false questions (T for true, F for false; 2 points each, total 20 points)

1. An external JavaScript must contain the <script> tag. [Answer: ____]

2. The variable name can begin with a letter, underscore, or a number. [Answer: ____]

3. When we declare a variable within a function, the variable can only be accessed within that function. [Answer: ____]

4. The following JavaScript code prints “Good morning” to the HTML document. [Answer: ____]

```javascript
<script type="text/javascript">
var hour = 12
if(hour < 10)
{
    document.write("Good day!")
}
else
{
    document.write("Good morning!")
}
</script>
```

5. You should use the switch statement if you want to select one of many blocks of code to be executed. [Answer: ____]

6. The following two different lines of JavaScript code are equivalent. [Answer: ____]

```javascript
name="Hege"
name = "Hege"
```

7. If I want to convert the string “cs134” to “CS134”, then I can use the following lines of JavaScript code to do that. [Answer: ____]

```javascript
var txt = “cs134”
txt = txt.toUpperCase()
```

8. The way we declare a new string object is [Answer: ____]

```javascript
var str = new String()
```

9. The following JavaScript code will cause an error: [Answer: ____]
```javascript
var mycars=new Array(2)
mycars[0]="Saab"
mycars[1]="Volvo"
mycars[2]="BMW"
alert(mycars[2])
```

10. To use the “round” function of JavaScript Math object, we have to first create an instance of this object, and then call the “round” function as following:  
   [Answer: ____]
   ```javascript
   var myMathObj = new Math()
   myMathObj.round(4.7)
   ```

III Fill in the blanks. (3 points each, total 18 points)

1. The value stored in variable “x” after the following operations is _______.
   ```javascript
   x = 5
   x ++
   x %= 20
   ```

2. If
   ```javascript
   x=5
   y="5"
   ```
   Then, “return x==y” returns _______; “return x===y” returns _______.

3. If we have a JavaScript code as following:
   ```javascript
   txt1="What a very"
   txt2="nice day!"
   txt3=txt1+txt2
   ```
   Then, the variable “txt3” contains __________________ after all those operations.
   (Be careful about the space).

4. Output of the following JavaScript code is ____________________________.
   ```javascript
   <script type="text/javascript">
   var i=0
   do
   {
   document.write("The number is " + i)
   document.write("<br />")
   i=i+1
   }
   while (i<0)
   </script>
   ```
5. Output of the following JavaScript code is _____________________________.
<script type="text/javascript">
var i=0
for (i=0;i<=3;i++)
{
if (i==1){continue}
document.write("The number is " + i+"<br/>")
}
</script>

6. If I want to assign the following string to a variable named txt in JavaScript, the code should be _________________________________.
They are so-called “Vikings” from the north.

IV Writing code (40 points total)

1. (15 Points) Take a look at the following JavaScript code:

<html>
<head>
<script type="text/javascript">
...
</script>
</head>

<body>
<form>
<input type="button" value="Click me!" onclick="displaymessage()" >
</form>
</body>
</html>

Now, if I want to put some code inside the <script> tag, so that when the user click on the “Click me!” button, the sentence “Welcome to my world!” will be printed out to the document (not alert box) in <h1> format. Then what should be my JavaScript code?
2. **(10 Points)** I want to use a JavaScript function which returns the maximum of two numbers. Please provide the code of this function.

3. **(15 Points)** Write a simple JavaScript program which prints out all the even numbers from 1 to 100 (use document.write() for printing; don't use alert()).