

# CS134 Web Site Design & Development

## Quiz2

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Name: \_\_\_\_\_

Score: \_\_\_\_\_

Email: \_\_\_\_\_

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

1. Where is the correct place to insert a JavaScript? [Answer: \_\_d\_\_]
  - 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: \_\_c\_\_]
  - 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: \_\_b\_\_]
  - 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: \_\_c\_\_]
  - 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: \_\_b\_\_]
  - 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? [Answer: \_\_d\_\_]
- for (i = 0; i <= 5)
  - for (i <= 5; i++)
  - for i = 1 to 5
  - for (i = 0; i <= 5; i++)
7. Which one of the following is a legal JavaScript comment? [Answer: \_\_d\_\_]
- <!--This is a comment-->
  - ##/This is a comment
  - 'This is a comment
  - /\* This is a comment \*/
8. What is the correct way to create a JavaScript array with 3 items? [Answer: \_\_b\_\_]
- var txt = new Array="tim","kim","jim"
  - var txt = new Array("tim","kim","jim")
  - var txt = new Array:1=("tim")2=("kim")3=("jim")
  - var txt = new Array(1:"tim",2:"kim",3:"jim")
9. Which of the statements about JavaScript function is correct? [Answer: \_\_a\_\_]
- To keep the browser from executing a script when the page loads, you can put your script into a function.
  - A function contains code that will be executed when an event happen.
  - 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>).
  - Functions can be defined only in the <head> section of a document.
10. Which HTML element is used to create a click button? [Answer: \_\_a\_\_]
- <input>
  - <click>
  - <formtype>
  - <clickbutton>
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"? [Answer: \_\_a\_\_]
- username = prompt("What is your name?")
  - username = prompt("What is your name?", input)
  - prompt("What is your name?", username)
  - prompt(username, "What is your name?")

## 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: \_\_F\_\_]
2. The variable name can begin with a letter, underscore, or a number. [Answer: \_\_F\_\_]
3. When we declare a variable within a function, the variable can only be accessed within that function. [Answer: \_\_T\_\_]
4. The following JavaScript code prints "Good morning" to the HTML document. [Answer: \_\_T\_\_]

```
<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: \_\_T\_\_]
6. The following two different lines of JavaScript code are equivalent. [Answer: \_\_T\_\_]

```
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: \_\_T\_\_]

```
var txt = "cs134"
txt = txt.toUpperCase()
```

8. The way we declare a new string object is [Answer: \_\_T\_\_]  

```
var str = new String()
```
9. The following JavaScript code will cause an error: [Answer: \_\_F\_\_]

```
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: \_\_F\_\_]

```
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 6 .

```
x = 5
x ++
x %= 20
```

2. If

```
x=5
y="5"
```

Then, “return x==y” returns true; “return x===y” returns false .

3. If we have a JavaScript code as following:

```
txt1="What a very"
txt2="nice day!"
txt3=txt1+txt2
```

Then, the variable “txt3” contains What a verynice day! after all those operations.

(Be careful about the space).

4. Output of the following JavaScript code is The number is 0.

```
<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>
```

Answer:

```
The number is 0
The number is 2
The number is 3
```

6. If I want to assign the following string to a variable named txt in JavaScript, the code should be `__ txt = "They are so-called \"Vikings\" from the north".`

\_\_\_\_\_.

```
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?

```
function dummy()
{
    document.write("<h1>Welcome to my world!</h1>")
}
```

2. **(10 Points)** I want to use a JavaScript function which returns the maximum of two numbers. Please provide the code of this function.

```
function max(a, b)
{
    if(a>b)
    {
        return a;
    }
    else
    {
        return b;
    }
}
```

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()).

```
for(i=0; i<=100; i++)
{
    if(i % 2 == 0)
    {
        document.write(i+"<br/>");
    }
}
```