

UNCA CSCI 242
Exam 1 Spring 2012
28 February, 2012
The closed section

This section of the exam is a closed book and closed notes. Calculators, PDA's, cell phones, and any other electronic or communication devices may not be used on this section of the exam.

After you turn in the closed sections, you may use your computer.

Name: _____

If you want partial credit for imperfect answers, explain the reason for your answer!

Problem 1 (4 points)

Write a line of JavaScript that declares a variable `myName` and sets it to your name.

```
var myName = "John Doe" ;
```

Problem 2 (4 points)

Write a line of JavaScript that creates an array called `myCourses` containing two integers: 202 and 242.

```
var myCourses = [ 202, 242 ] ;
```

Problem 3 (4 points)

Write a line of JavaScript that creates an object called `myCourse` with two fields. One field is called `number` and contains the integer 242 and the other is called `dept` and contains the string "CSCI".

```
var myCourse = { number : 242, dept : "CSCI" } ;
```

Problem 4 (4 points)

Write a JavaScript function called `DoubleUp` that has a single parameter, a number, that returns the result of doubling the number. For example, `DoubleUp(121)` would be 242.

```
function DoubleUp(n) {  
    return n+n ;  
}
```

Problem 5 (4 points)

JavaScript is called a "weakly typed" language. What does this mean?

Variables are not declared with a specific type, such as the `int` and `String` of Java. Instead the type of the variable is determined from its value.

Problem 6 (4 points)

Why is the `onload` event handler needed for JavaScript applications that manipulate the DOM?

The `onload` is used to make sure that the DOM is fully loaded before the JavaScript code uses it.

Problem 7 (4 points)

Why does the expression $(2/5) * 5$ have different values in Java and JavaScript?

In JavaScript numbers are like Java doubles. Although $(2/5)$ is 0 in Java, in JavaScript it is 0.4.

Problem 8 (4 points)

What does the following statement do in JavaScript?

```
alert("Danger, Will Robinson!");
```

Puts an annoying message on the screen.

Problem 9 (4 points)

JavaScript has a special “value” called `undefined`. How do variables get this value?

Most likely the variable has been declared but not initialized. This could also happen when you assign a variable to a non-existent field of an object.