Winter ’11 CIS 111 Final Review

You may bring one page of notes, front and back.

You may bring a calculator but shouldn’t need one.

Questions will be in short-answer format with partial credit for partial answers.

Questions will require you to read but not write Javascript code.

Topics:

- All midterm topics, although the exam will focus on material covered since the midterm
- Conditional execution: if, if/else, if/else if/else statements; Boolean NOT (!), AND (&&), OR (||)
- Conditional repetition: while loops
- String properties: length
- String methods: charAt(), substring(), toLowerCase(), toUpperCase(), search(), split(); know each method’s parameters and functionality
- Arrays: defining, accessing an element, converting a String to an Array using the String object’s split() method.

Sample questions:

1. [20] Consider the following Javascript code:

   ```javascript
   function f(a, b) {
       if (a == 0 || a == 2) {
           alert(b + a);
       }
       else {
           alert(b - a);
       }
   }
   ```

   a. [10] What is printed when the above function is called as `f(1, 2)`?

   b. [10] What is printed when the above function is called as `f(2, 1)`?
2. Consider the following Javascript code:

```javascript
var o = "";
var i = 0;
while (i < 5) {
    o = o + "1";
    i = i + 1;
}
alert(o);
```

What is printed when the code is executed? Why?

3. Consider the following Javascript code:

```javascript
var t = "1 3 5 7 9";
var w = t.split(" ");
var i = 0;
var n = 0;
while (i < w.length) {
    n = n + w[0] + w[i];
    i = i + 1;
}
alert(n);
```

What is printed when the code is executed? Why?