**CIS 111 – Midterm Exam A (150 points) Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Multiple Choice and True/False questions: 5 points each.

1. What is the value of result after the following code is executed?

var number1 = 3;

var number2 = 2;

var number3 = 4;

var result = (number1 \*\* number2) + number3;

a) 10 b) 11 c) 12 d) 13

1. When IPO is used in reference to the structure of a program it stands for Information, Processing, Output.

a) true b) false

1. What HTML element allows you to integrate JavaScript code into your web page?

a) java b) javascript c) script d) code

1. In reference to a web page, DOM stands for:

a) Dominant Object Model b) Domain Object Model

c) Document Object Method d) Document Object Model

1. Which of the following is not a valid variable declaration?

a) var distance = 3; b) var 3distance; c) let distance3; d) let myDistance = 3;

1. Which of the following is considered the concatenation operator?

a) /n b) \*\* c) + d) %

1. Which of the following represents a literal in JavaScript?

a) number1 b) isAlpha (ch) c) alert (fname) d) 27

1. The variable result will be what data type after the following statements are executed?

let value1 = 9;

let value2 = 7;

let result = value1 >= value2;

a) boolean b) string c) number d) undefined

1. The variable result will be what data type after the following statements are executed?

let value1 = "digit99";

let value2 = 25;

let result = value1 + value2;

a) boolean b) string c) number d) undefined

1. Which of the following when enclosing a string in back-ticks allows the use of obtaining the value of the variable number from within the string?

a) ^number b) //number c) ${number} d) \\number

1. What would be displayed by the following?

var num = 2;

console.log(Math.pow(num, 3));

a) 6 b) 8 c) 9 d) 10

1. What values are stored in the variables num1 and num2 after the following code is executed?

var num1 = 10;

var num2 = 11;

num2 = num2 + num1;

a) num1 is 10, num2 is 11 b) num1 is 10, num2 is 21

c) num1 is 11, num2 is 21 d) num1 is 21, num2 is 11

1. What does the following function return when called with this statement: alert(isQuarter(10));

function isQuarter(coin) {

if (coin == 25)

return true;

else

return false;

}

a) true b) false c) 25 d) 10

1. JavaScript can be used to dynamically add text, change colors and modify other attributes on a web page after the web page has been viewed.

a) true b) false

1. What is printed when this function is called with: console.log(securityLevel("CEO", "Admin"));

function securityLevel(job, dept) {

if ((job == "CEO") || ( dept == "Finance"))

return 7;

else

return 3;

}

a) true b) false c) 3 d) 7

1. Which of the following is the operator that yields the remainder of an integer division?

a) / b) // c) \*\* d) %

1. Which of the following can be used to allow the application user to enter data from the keyboard.

a) alert function b) prompt function c) parse.Int function d) number function

1. What is printed when this function is called with: console.log(toggleLight("on"));

var toggleLight = function(state) {

if(state == "on")

return "off";

else

return "on";

}

a) true b) false c) on d) off

1. What is printed when this function is called with: console.log(isOdd(5));

function isOdd(n){

return (n % 2 == 1);

}

a) true b) false c) 0 d) 1

1. What is returned when the following function is called with: console.log(discountValue(20, 1240);

function discountValue(quantity, price) {

var refund;

if (quantity >= 25 && price >= 1000)

refund = 100;

else if (quantity >= 10 && price >= 1000)

refund = 50;

else if (quantity >= 5 && price >= 100)

refund = 10;

else

refund = 0;

return refund;

}

a) 0 b) 10 c) 50 d) 100

1. How many arguments should be passed when calling the following function?

let volumeRectangle = function(length, width, height) {

volume = length \* width \* height;

return volume;

}

a) 1 b) 2 c) 3 d) no arguments at all

1. What loop is designed to be used if you always want the statements in the loop to execute at least once?

a) if b) for c) while d) do while

1. What is printed on the console after the following code is executed?

let string1 = "Hi there";

let string2 = string1.indexOf(4) + string1.charAt(5)

console.log(string2);

a) Hi b) there c) th d) he

1. What is the range of possible values of result after the following code is executed?

let result = Math.floor((Math.random() \* 10) + 1);

console.log(result);

a) 0 to 1 b) 0 to 10 c) 1 to 10 d) 1 to 11

1. What is printed when this function is called with: console.log(sumIt(10));

function sumIt(number) {

let total=0;

for (let i=0; i<=number; i+=5) {

total+=i;

}

return total;

}

a) 10 b) 15 c) 30 d) 55

1. What is printed when this function is called with: console.log(countIt(4));

function countIt(number) {

let count=0;

let i=number;

while (i>2) {

count=count+1;

i--;

}

return count;

}

a) 1 b) 2 c) 3 d) 4

1. What is printed on the console after the following code is executed?

let str = "sandstone finder";

let str2= str.substr(5, 4);

console.log(str2);

a) tone b) ston c) stone d) find

1. Which symbols specify a JavaScript comment?
2. <> b) ;; c) ( ) d) //
3. What is printed when this function is called with: console.log(isAlpha("e"));

let isAlpha = function(ch) {

ch = ch.toUpperCase();

if (ch >= "A" && ch <= "Z")

return true;

else

return false;

};

a) true b) false

1. The following is written as a function expression?

let volumeRectangle = function(length, width, height) {

volume = length \* width \* height;

return volume;

}

a) true b) false

1. Extra Credit - What is printed when this function is called with: console.log(dayMonth("05/15/2019"));

let dayMonth = function(dateStr) {

var date1 = new Date(dateStr);

return date1.getMonth() + "/" + date1.getDate();

}

a) 4/15 b) 5/15 c) May/15 d) 5/15/2019