**CIS 111 Final Exam**

**Summer 2019.**

**32 questions- 5 points each & 2 bonus questions- 20 points each.**

**Total points: 200**

**Full Name………………………………………………………………………………**

**UO ID…………………………………..………………………………………………**

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| 1.When x = 5 and y = 10, what will be the value of the following statements?  a) x >= y  b) x > y && x==y  c) x > y || x==y  d) x <= y  e) !(x>=y || x>=y)  Answer:  False  False  False  True  True |
| 2.What value does the following code print on the console?  let total = 0; for (let i = 0; i <= 12; i+=4)     total = total + i; console.log(total);  Answer:24 |
| 3.Suppose a web page has two input elements, and the content in the second input element is, *Avast!* After this code is executed, what will the content in the first input element be?  let content = document.querySelectorAll("input")[1].value;  content = `${content} Ya lubber! `;  document.querySelectorAll("input")[0].value = content;  Answer: “Avast! Ya lubber! “ |
| 1. 4.In the following code what will be the output?   function addStuff(arr){  let result = 0;  for(let i = 0; i < arr.length; ++i){  if(arr[i] > 0)  result += arr[i];  }  return result;  }  let x = 6;  let numbers = [2, 4, x, 8];  console.log(addStuff(numbers));  Answer: 20 |
| 5.What is printed on the console?  let n = 1, result = 1;  while (n < 3) {  result = Math.pow(n, 2);  ++n;  }  console.log(result);  Answer: 4 |
| 6.What is printed on the console?  let isPhredGoing = false, isIantheGoing = true;  let isRokyGoing;  if (!isPhredGoing && isIantheGoing)  isRokyGoing = true;  else  isRokyGoing = false;  console.log(isRokyGoing);  Answer: true |
| 1. 7. What character does the following code print on the console.   let str = "makter2@cs.uoregon.edu ";  let i = str.length - 1;  console.log(str[i]);  Answer: “ ” or “u” |
| 1. 8.What does the following code print on the console?   let names = ["Robert", "Diane", "Dennis", "Kaylene"];  console.log(names[names.length-2]);  Answer: Dennis |
| 9.What does the following code print on the console?  let odds = [1, 3, 5, 7];  total = 0;  for (let i = 0; i < odds.length; i++)      total = total + odds[i]; console.log(total);  Ans: 16 |
| 1. 10.What does the following code print on the console?   let company = "Intel";  function addStuff(arr){  let result = 0;  for(let i = 0; i < arr.length; ++i){  if(arr[i] > 0)  result += arr[i];  }  return result;  }  Ans: undefined |
| 11.This example prints what value on the console?  let s = "The life of a repo man is always intense";  let arr = s.split(' ');  console.log(arr[1].length);  Ans:4 |
| 1. 12.What does the following print on the console?   let numbers = [2, 4, 6, 8];  console.log(numbers[1]-1);  Ans: 3 |
| 1. 13.What does the following print on the console?   let isVowel = (ch) => {  let vowels = /[aeiouyAEIOUY]/;  return vowels.test(ch);  };  console.log(isVowel("Ya3"));  Ans: true |
| 1. 14.What does the following print on the console?   let goats = 7, cows = 10, sheep = 3;  if (sheep < goats && cows > sheep)  console.log("Buy more sheep");  else if (goats < sheep && cows > goats)  console.log("Buy more goats");  else if (cows < sheep || cows < goats)  console.log("Buy more cows");  else  console.log("Save your money");  Ans: Buy more sheep |
| 1. 15.What type of data, the variable words is holding in the following code?   let getWords = sentence => {  return sentence.split(" ");  };  let words = (getWords("The quick brown fox"));  Ans: ["The", "quick", "brown", "fox"] |
| 16.After execution of the following statements, what will be b’s latest value.  let a = 20, b = 10;  a++;  b = a + b++;  Ans: 31 |
| 17.The following code prints what value in the console?  let prof = ["Severus", "Snape", ["potions", "dark arts"]];  let majors=prof[2];  console.log(prof[0]. charAt(0) + ". " + majors[0]);  Ans: “S. potions” |
| 1. 18.The following code prints what value on the console?   let pattern = /[aeiou]/;  console.log(pattern.test("A"));  Ans: false |
| 19.The following prints what value on the console?  let faves = "Donuts,Milk,Eggs,Spam";  let foods = faves.split(",");  console.log(foods[2] + ", " + foods[3] + ", " + foods[1] + ", and " + foods[3]);  Ans: “Eggs, Spam, Milk, and Spam” |
| 1. 20.What does the following print on the console?   let addStuff = function(arr){  let result = 0;  for(let i = 0; i < arr.length; ++i){  if(arr[i] > 0)  result += arr[i];  }  return result;  }  console.log(addStuff([2, -4, 3, 5, 0, -1]));  Ans: 10 |
| 21.what value this function prints?  let WTH = (s) => {  let k = 0;  for (let i = 0; i < s.length; ++i)  if(/[aeiouy]/i.test(s[i]) == true)  ++k;  return k;  }  console.log(WTH("7Squids"));  Ans:2 |
| 1. 22.What does the following print on the console?   let daysInMonth = month => {  let months = [31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31];  return months[month - 1];  };  console.log(daysInMonth(2)-1);  Ans:27 |
| 1. 23.What does the following print on the console?   let numbers = [2, 4, 6, 8, 10, 12, 14, 13, 45, 21, 91, 67, 4];  value = numbers[numbers[numbers[1]-1]];  console.log(value);  Ans:45 |
| 24.The following function has at least one syntax error. What is that?  function func(n){  if(n % 2 == 0)  console.log("true");  return true;  else  return false;  }  Ans: curly brace is missing around if statement block. |
| 25.The following prints what value on console?  let j = 2, k = 3, temp;  temp = j;  j = k;  k = temp;  console.log(`j = ${j} k = ${k}`);  Ans: “j = 3 k = 2” |
| 26.What the alerts will display?  let promptForName = "Enter your name";  alert("promptForName");  alert("Enter your name");  Ans: "promptForName"  "Enter your name" |
| 27.Given this HTML element: <p>Bilbo Baggins</p>. This following statement prints what value?  console.log(document.querySelector("p").innerHTML);  Ans: “Bilbo Baggins” |
| 28.This example prints what value?  let search = (s, ch) => {  if(s.indexOf(ch) == -1)  return "Miss!";  else  return "Hit!"  };   1. console.log(search("Echo", "E"));   Ans: Hit |
| 29.Convert this for loop in while loop.  let j = 0, ans = "";  while( j <= 3 ){  ans = ans + j + " ";  j++ ;  };  console.log(ans);  Ans:  let j , ans = "";  for( j=0; j <= 3; j++ ){  ans = ans + j + " ";  };  console.log(ans); |
| 30.Complete the fill in the blank below to print 0 1 2 3 4 on the console.  let result = "";  for (let j = 0; \_\_\_\_\_\_\_\_\_\_\_\_\_; j++ ){  result = result + j + " ";  }  console.log(result);  Ans: j<=4 |
| 31.The following example prints what?  let txt1 = "Argus";  let txt2 = "Filch";  let txt3 = "${txt1} ${txt2}";  console.log(txt3);  Ans: “${txt1} ${txt2}” |
| 32.How to write a condition that recognizes an alphabetic letter in JavaScript, write an example code?  Ans:(ch>=”A” && ch<=”Z”) |
| 1. 33.Write an arrow syntax function called maxDigit that takes a long number as parameter and returns the maximum digit in that number. (Bonus 20 points) 2. Example if the number is n=4621375858457; 3. The output should be 8.   n=4621375858457;  let maxDigit=(s)=>{  s=s.toString();  let i,max=s[0],ch;  for(i=0;i<s.length;i++){  ch=s[i];  if(ch>max)  max=ch;  }  return max;  }  console.log(maxDigit(n)); |
| 1. 34. Write a function expression called maxWord that takes a sentence as parameter and returns the word of the maximum length in that string. (Bonus 20 points) 2. Example if the sentence is str=`The white albatross flies over the clever fox`; 3. The output should be `albatross`.   Ans:  str=`The white albatross flies over the clever fox`;  let maxWords=(s)=>{  let ar,word;  ar=s.split(" ");  let i,maxWord=ar[0],maxLength=maxWord.length;word;  for(i=0;i<ar.length;i++){  word=ar[i];  if(word.length>maxLength){  maxLength=word.length;  maxWord=word;  }  }  return maxWord;  }  console.log(maxWords(str)); |