1. Determine what this Javascript code will print out (without running it):

{

x = 1;

var a = 5;

var b = 10;

var c = function(a, b, c) {

var x = 10;

document.write(x);

document.write(a);

var f = function(a, b, c) {

b = a;

document.write(b);

b = c;

var x = 5;

}

f(a,b,c);

document.write(b);

}

c(8,9,10);

document.write(b);

document.write(x);

}

Result: 10 8 8 9 10 1

2. What is the difference between a method and function?

Method is don't have independent existence and it always associated with object. A function can work dependently it self.

3. What does 'this' refer to when used in a Java method?

In Java 'this' refer use for invoking class's variable and method.

4. What does 'this' refer to when used in a JavaScript method?

In JavaScript 'this' refer use for invoking object's local variable.

5. What does 'this' refer to when used in a JavaScript constructor function?

6. Assume object x is the prototype for object y in Javascript. Object x has a method f() containing keyword 'this'. When f is called by x.f( ), what does 'this' refer to?

y = {

x: function(){

this.f();

}

}

it will show an error. Because f method doesn't declare in x object. Inside of x object called y object's method. In this situation "this" refer is express y object.

7. What is a free variable in JavaScript?

Inside of Local scope use variable from the outer scope or global variable.

8. Create an object that has properties with name = "fred" and major="music" and a property that is a function

that takes 2 numbers and returns the smallest of the two, or the square of the two if they are equal.

{

name: "fred",

major: "music",

func: function(arg1, arg2){

if(arg1 > arg2)

return args2;

else if(arg1 < arg2)

return args1;

else

return args1 \* args1;

}

}

9. Write Javascript code for creating three Employee objects using the "new" keyword and a constructor function.

Employee objects have the following fields: name, salary, position.

(function(){

function Employee(name, salary, position){

this.name = name;

this.salary = salary;

this.position = position;

}

var manager = new Employee("Emily", 50000, "Manager");

var senior\_developer = new Employee("ABRAM", 150000, "Senior developer");

var system\_analyst = new Employee("Allen", 150000, "System Analyst");

})();

10. Write a Javascript function that takes any number of input arguments and returns the product of the

arguments.

function Funct(){}

11. Write an arrow function that returns the maximum of its three input arguments.

(arg1, arg2, arg3) => {

var max = arg1;

if(max < arg2)

max = arg2;

if(max < arg3)

max = arg4;

return max;

}