## Instructions:

- Write your answers in the spaces provided.
- # There is no penalty for guessing, so be sure to answer all questions.
- # Unless otherwise indicated, all questions count equally.
- 1. Write JavaScript statements that assign the following values to a variable named "a\_var." I've done the first one for you to show you what I mean:

A. A number

a 
$$var = 123;$$

B. A string

C. An empty array

- D. An object containing two variables, *x* and *y*; make the value of *x* the number 3 and make the value of *y* the string, "hello."
- E. The value returned by some function named *func()* (Assume *func()* was defined elsewhere and that it takes no arguments
- F. The value of a variable x, which is a member of an object named obj.
- G. The third element of an array named arr.
- (A) Explain the two uses of the + operator in JavaScript. (B) Tell what happens if the + operator is used with a string for one operand and a number as the other one.
   A.

В.

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3.	Write the definition of a function named <i>plus_3()</i> that gets passed one argument ar of that argument + 3. Answer this questions twice: there are two different ways to d JavaScript; show both methods. This question has nothing to do with objects; see to before you answer this one.  A.	lefine a function in
	B.	
4.	Now show <i>two</i> ways to put the definition of a function named <i>f()</i> in an object named three dots () to represent the statements inside the function.  A.	l <i>obj</i> . Just use
	B.	

5. Write an anonymous self-executing function that does nothing except to return the number 123.

6. What do the objects in the DOM tree correspond to?

7. What does the function document.getElementsByTagName() do?

8. What does the function document.getElementById() do?

9. What is an event handler, and what causes it to execute?

10. What does the function Core.addEventListener() do?

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11. What does the function Core.start() do?

12. Write a loop that computes the sum of all the numbers in an array. First, declare a variable named *sum* and give it an initial value of 0. Then write a *for* statement that makes the index variable named *i* start at 0 and increase by one each time through the loop until it reaches the length of the array. Assume the array is already in a variable named *the\_array*. You need to test the type of each element in the array to be sure it is a number before adding its value to *sum*.