

# Quiz 2: JavaScript Objects and Prototypes

**Due** Sep 19 at 11:59pm

**Points** 10

**Questions** 10

**Available** Sep 15 at 5pm - Sep 19 at 11:59pm

**Time Limit** 15 Minutes

## Instructions

This covers parts 1-5 of JavaScript Objects and Prototypes

This quiz was locked Sep 19 at 11:59pm.

## Attempt History

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	13 minutes	10 out of 10

Score for this quiz: **10** out of 10  
Submitted Sep 15 at 5:14pm  
This attempt took 13 minutes.

Question 1	1 / 1 pts

The type system deployed by JavaScript is commonly known as

- A. Static typing
- B. No typing
- C. Duck Typing
- D. None of the above

**Correct!**

☒ C

☐ A

☐ B

☐ D

## Question 2

1 / 1 pts

Consider the following JavaScript code, "var p = new Person();" where Person is a constructor function. The value of the 'this' variable inside the constructor function is

- A. Null
- B. Undefined
- C. Person function
- D. New object

**Correct!**

☒ D

☐ A

☐ B

☐ C

### Question 3

1 / 1 pts

Which of the following is true about the constructor function in JavaScript, in order for the code to be correct (i.e., not throw an exception or result in a runtime error) ?

- A. The constructor function must explicitly return the new object created
- B. The constructor function must use 'this' to initialize the new object's fields
- C. The constructor function must be called in a stand-alone fashion (i.e., not from another function)
- D. The constructor function's name's first letter must be capitalized (i.e., upper-case)

Correct!

☒ B

☐ A

☐ C

☐ D

### Question 4

1 / 1 pts

Which of the following statements distinguishes JavaScript objects from their counterparts in more traditional OO languages (e.g., Java)

- A. JavaScript objects can be created without any corresponding classes
- B. JavaScript objects can be passed as references to functions
- C. JavaScript objects need not contain any methods in them
- D. JavaScript objects can support runtime reflection

Correct!

☒ A

☐ B

☐ C

☐ D

### Question 5

1 / 1 pts

In JavaScript, an object that is created using a constructor function 'foo' and the new operator ("new foo()"),

- A. Has the prototype property set to Object.prototype with the constructor field set to foo
- B. Has the prototype property set to foo.prototype with the constructor field set to foo
- C. Has the prototype property set to foo, with the constructor field set to null
- D. None of the above

Correct!

☒ B

☐ A

☐ C

☐ D

### Question 6

1 / 1 pts

When a method 'foo' is invoked on an object 'O', which of the following is the order in which the method name is looked up ?

- A. O alone
- B. O's prototype alone
- C. O followed by O's prototype
- D. O's prototype followed by O

**Correct!**

☒ C

☐ A

☐ B

☐ D

### Question 7

1 / 1 pts

When you want to inherit from a constructor function 'Obj' in pseudo-classical inheritance (as we did in the lecture), you need to set the .prototype property of the constructor function of the inherited object (Inherited.prototype) to which of the following ?

- A. Obj
- B. Obj.prototype
- C. Object.getPrototypeOf(Obj)
- D. new Obj()

**Correct!**

☒ D

☐ A

☐ B

☐ C

### Question 8

1 / 1 pts

Consider a constructor function 'Point' from which you instantiate a new object as follows: "var p = new Point();". Which of the following expressions will return false ?

- A. p instanceof Point
- B. p instanceof Object
- C. Object.getPrototypeOf(p) instanceof Object
- D. Object.getPrototypeOf(p) instanceof Point

☐ C

☐ A

☐ B

☒ D

Correct!

### Question 9

1 / 1 pts

object.hasOwnProperty() returns a boolean indicating whether the property is present in the object itself or anywhere in the prototype chain of the object starting from the object's prototype object

☐ True

☒ False

Correct!

### Question 10

1 / 1 pts

When you attempt to retrieve a property of an object in JavaScript

that has not been defined in either the object or its prototype chain, which of the following happens ?

- A. The property is added to the object and initialized to the default value, which is returned
- B. The property is not added to the object, but its default value is returned
- C. The property is not added to the object, and the value Undefined is returned
- D. A runtime exception occurs

**Correct!**

☒ C

☐ A

☐ B

☐ D

Quiz Score: **10** out of 10