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Questions on Javascript

12. Consider the following definition of an object Account with three private variables, two private methods:

```
var Account = (function( ) (
   var Balance = 0; // private
   var AcctNo = 0; // private
   var Owner = ""; // private
   var getBalance = function( ) { // private method
      return Balance;
    var setBalance = function(newBalance) ( // private method
        Balance = newBalance;
     var Open = function(balance, acctno, owner) { // public metho
        setBalance(balance);
      AcctNo = acctno;
       Owner = owner;
     var Deposit = function(amount) ( // public method
      setBalance(getBalance() + amount);
     return { ... }; // Your return object here
  1)();
```

Your job is complete the code of this Account definition by supplying the return object. We the answer sheet.

```
perposit: Deposit
```

18. The purpose of the following HTML web page and Javascript code is to display list items, each with a Delete Button. When the User clicks on a Delete Button, the corresponding list item (with its Button) disappears from the list. Your job is to write the code of the Javascript DeleteItem() function. Write your answer on the annual these.

HTML: <h1>Shopping Cart</h1> <button>Delete</button> Shirt <button>Delete</button> Tie Jacket <button>Delete</button> <button>Delete</button> Hat Javascript: (function() { function DeleteItem() { Insert your code here \$(document).ready(function() { \$("button").click(DeleteItem); });

})();

4. Which (Overy function is used to prevent orde from runn (a) \$(body) onload() (b) \$(document).teady() (c) \$(document).toad() (d) window.onload() (e) all of the above	
5. Look at the following selector: \$("div p"). What does it s	elect?
(a) All p elements inside a div element	
(b) The first p element inside a div element	
(c) All div elements with a p element	
(d) Not a valid selector	
(e) All div elements	
6. Which jQuery method is used to remove selected elemen	us?
(a) remove()	
(to) detach()	
To the methods can be uses	
7. Which jOuery method returns the direct parent element of	the selected
7. Which jOuery method returns the direct party	
(a)parent()	
(b) parents()	
(d) ancestors()	
(e) above()	
8. Which of the following jOuery method sets the html cont	ents of an s
(a)html(val)	
(b) setHtml(val)	
(c) setInnerHtml(val)	
(d) innerHTML(val)	
(e) None of the above	

18. The purpose of the following HTML web page and Javascript code is to display list items, each with a Delete button. When the User clicks on a Delete Button, the corresponding list item (with its Button) disappears than the list, Your job is to write the code of the Javascript DeleteItem() function. Write your answer on the amount there.

HTML <h1>Shopping Cart</h1> <l <button>Delete</button> Shirt <button>Delete</button> Tie Jacket <button>Delete</button> <button>Delete</button> Hat Javascript: (function() { function DeleteItem() { Insert your code here \$(document).ready(function() { \$("button").click(DeleteItem); });

})();

```
16. Consider the following Object Factory Function called Employee:
Employee = function( ) (
   theEmp = (
      name: "", // public field
       salary: 0 // public field
    1:
   getSalary = function( ) ( // private method
       return the Emp. salary;
    setSalary = function(aSalary) { // private method
       theEmp.salary = aSalary;
  giveRaise = function(amount) { // public method
        setSalary(getSalary() + amount);
     ... // insert a statement here to make giveRaise public
     return theEmp;
 A new Employee object with Salary 15000 is created as follows:
        aEmp = Employee( );
        aEmp.name = "George Smith";
        aEmp.salary = 15000;
        aEmp.giveRaise(1000); // Give raise of 1000
 To make this Object Factory work correctly, one additional Javascript statement is needed right before
  make the giveRaise method public, as indicated by the comment shown above. Your job is to write the
  statement. Write your answer on the answer sheet.
  17. function Data() {
         var x = [];
         return {
                put: function (item) {
                       x.push(item);
                 take: function() {
                      return x.pop();
                 size: function() {
                        return x.length;
          };
   y = Data(); y.put(10); y.put(-15);
```

what is the result of executing the above Javascript code? Write your answer on the answer sho

alert(y.size());

alert(y.take());

12. HTML Form data always goes directly to the Server, it cannot be accessed by Javascript running Browser.

- 13. An XMLHupRequest to a Web Server must always return data in XML format.
- 14. In a jQuery S.ajax() call, webpage form data can be sent to the server as a GET request without ap query string to the ajax URL parameter.
 - 15. When using jQuery S.ajax(), both Get and Post requests are allowed.
 - 16. By using jQuery S.ajax(), the Javascript code running in the Web Browser can access SQL Databas the client computer.
 - 17. Most Web Browsers have jQuery built into the Browser.
 - 18. When the Javascript "new" operator creates an object, the constructor function defines the prototype object.
 - 19. A Javascript object created with Object.create() can be extended with new fields without changing its object.
 - 20. Javascript variables defined with let have block scope.

14. What is the result of executing the following Javascript cod
var b = 1000;
function g() {
 var a = 100;
 b = 10;
 var z = a + b;
 alert(z);

function f(z) {
 return 2*z;

```
function() (
   function DeleteItem() (
        Insert your code here
}
$(document).ready(function() (
        $("button").click(DeleteItem);
}));
});
```

True/False Questions

Jas on High

Instructions: Indicate True or False for each statement.

- 1. In Javascript, an event handler is always a function.
- 2. The DOM document object contains the window object.
- 3. All global variables in any Javascript file are visible to all other Javascript files of
- 4. Each Javascript file has its own global namespace, separate from other files.
- 5. All declarations of free variables are hoisted into the global object.
- 6. Using the DOM, Javascript code can determine which Browser is being used.
- 7. Unobtrusive Javascript means all Javascript code for a website is put in the same fil
- 8. Javascript code is executed when the Browser reads the script tag.
- 9. An anonymous function can never be called because it has no name.
- 10. The Javascript instruction x = \$("p") stores a jQuery object in variable x.
- 11. If y is a DOM object, then y tagName contains the HTML tag name.

True/False Questions

- True All global variables in any javascript file are visible to all other javascript files on the same webpage.
- False Each Javascript file has its own global namespace, separate from other files.
- 3. False All declarations of free variables are hoisted into the global object.
- True Using the DOM, Javascript code can determine which Browser is being used.
- False Unobtrusive Javascript means all Javascript code for a website is put in the same file.
- 6. True JavaScript code is executed when the Browser reads the script tag.
- 7. False An anonymous function can never be called because it has no name.
- 8. **True** The Javascript instruction x = \$("p") stores a jQuery object in variable x.
- 9. True If y is a DOM object, then y.tagName contains the HTML tag name.
- 10. False HTML Form data always goes directly to the Server, it cannot be accessed by Javascript running on the browser.
- 11. False An XMLHttpRequest to a Web Server must always return data in XML format.
- 12. True?/False! When using a jQuery \$.ajax() call, webpage form data in XML format.
- 13. **True** When using jQuery \$.ajax(), both Get and Post requests are allowed.
- 14. False By using jQuery \$.ajax(), the Javascrit code running in the Web Browser can access SQL Databases stored on the client computer.
- 15. False Most Web Browsers have jQuery built into the Browser.
- 16. **True** When the Javascript "new" operator creates an object, the constructor function defines the prototype of the object.
- 17. **True** A Javascript object created with Object.create() can be extended with new fields without changing its prototype object.
- 18. **True** In Javascript, an event handler is always a function.
- 19. False The DOM document object contains the window object.
- 20. True Javascript variables defined with let have block scope.
- 21. True In a jQuery \$.ajax() call, webpage format data can be sent to the server as a GET request without app query string to the Ajax URL parameter?
- 22. **True** When using a jQuery \$.ajax() call, webpage form data can be sent to the server.