**JavaScript tutorial notes:**

**Module 1:**

JavaScript from the dawn of the web:

JavaScript was programming and scripting language developed 20 years ago by Brenden Fich Eich who never would have thought it would become what it has today.

**JavaScript:**

Mentioned as the de-facto standard assembly of the web. Used not only in browsers and the front end of the web applications but also heavily on the server side for web application programming interfaces like node.js.

Most commonly thought of as the most popular programming language in existence. An essential for any programmer or web developer to learn.

Javascript and java are completely different languages, both in concept and design and javascript has nothing to do with java.

A heavy programming language requiring the installation of additional software on the system. the makers of JavaScript was invented by the Brenden Eich in 1995, and became on ECMA standard in 1997.

ECMA-262 is the official name. ECMAScript 6 (released in June 2016) is the latest official version of JavaScript.

Javascript functions primarily within a host environment like a web browser although others such as Adobe Photoshop, Adobe Acrobat and NoSQL databases are fairly popular as well.

JavaScript is primarily used as a client-side scripting language. Means that most of the coding is written directly into the the HTML page and parsed by the browser when the page is rendered on the client. Primary function is to add to the level of interactivity what would otherwise have been a static pag e.

Getting the right tools:

The browser matters – The web browser is the primarily tool and enviropment in which yor javascript can run and the choice of browser is important. Though other development tools will exist modern browsers may have all you require to work with javascript already included.

Mozilla and chrome are the best browsers to use when working with javascript.

Stay away from older browsers, especially older versions of IE.

Unlike many other programming languages javascript has no real program association meaning there isn’t one program that you must or should use when coding javascript.

All modern web editors will support javascript editing.

This is so platforms agnostics that you should really just stick wit whatever program you are using. This could be a free program like TextEdit, Notepad, Notepad++ or Aptana or additional programs that you have to pay for.

Quiz:

Q1:

Which attribute to the script tag tells HTML to use an external javascript file?

src

Q2:

Which of the following is the best representation of the role of JavaScript to the web page?

Provides the behavior of the page

Q3:

What type of files are external JavaScript files?

Text files with a .js extension

External JavaScript files are **text files with a .js extension**.

Q4:

Which of the following is NOT a valid location for the <script> tag?

<footer>

Q5:

What is the primary difference between locating a <script> tag in the <head> section of the HTML file as opposed to the <body> section?

It is executed prior to the HTML content

It is executed

Q6:

Which of the following development tools provides a console window that is used to debug code and is invaluable to developers?

Firebug

The correct answer is **Firebug**.

Q7:

Which of the following browsers should you avoid if you are working with JavaScript?

Internet Explorer 7

Q8:

Which of the following creates a pop-up window in the browser that a developer must respond to in order to continue processing the page?

Alert

Q9:

Which of the following if done after the HTML is fully loaded would replace the HTML on the page?

document.write

The correct answer is **document.write**.

Q10:

Which of the following is the most common way for developers to debug the JavaScript code that they write?

Console.log

**Module 2:**

Core Concepts and syntax:

The structure and content of javascript code:

Naming and casing best practices

Understanding variables

Working with operators

Working with loops

Creating functions

Understanding types and objects.

JavaScript is written in plain text just like html and css but does follow a very specific syntax which developers must learn.

JavaScript is not a compiled language but an interpreted language meaning you write the code and hand it over to the web browser and it takes care of everything so no special compiler is necessary.

Simple text files and a browser that has JavaScript enabled is all we need.

Doming from html and css and even other programming languages this may not ring a bell but we must remember it.

So everything you do in javascript is case sensitive

Variables

Methods

Objects

You name it and it’s case sensitive.

If you don’t get the case right you won’t see any errors, your JavaScript code will simple not work.

This is the most important rule of the syntax but not the only one.

Expressions:

A combinationofvalues, variables, and operators, which computes to a value. The computation is referred to as an evaluation. Expressions can also contain variables.

Quiz:

Q1:

Which of the following parts of JavaScript are case sensitive?

All of the above

Q2:

Which of the following characters is used in JavaScript to define the end of a statement?

;

In JavaScript, the semicolon ( ; ) is used to define the end of a statement.

Q3:

Which of the following cannot be the first character in a variable name?

$

Q4:

The individual instructions in JavaScript are referred to as functions. True or False?

False

Q5:

Which of the following components of a statement in JavaScript is used to provide additional helpful information to developers?

Comments

Q6:

Which of the following operators is used to add two values together?

+

Q7:

Which of the following is the proper symbol to reference the beginning of a section of comments that includes multiple lines?

/\*

The correct symbol to reference the beginning of a section of comments that includes multiple lines in JavaScript is **/\***.

Q8:

Which of the following isn't proper camelcase that is recommended in JavaScript?

AddNumbersTogether

The correct answer is **AddNumbersTogether**.

Q9:

What is the primary difference between a variable and an array?

A variable only contains a single value

Q10:

Which of the following symbols are used with array?

[]

In programming, the symbols typically used with arrays are:

* **[]**: This is the most common symbol used to define and access array elements. For example, array[index].

Q11:

You have an array named values[] that has the values of "text", "number", and "string": in that order. You want to refer to the value of string in your code. Which of the following should you use?

Values[2]

To refer to the value "string" in the array values[], you should use:

**values[2]**

Q12:

You want to increment a variable by 1 every time through a loop. Which of the following symbols should you use?

++

Q13:

You need to write code that will increase the value of a variable by 5. Which of the following is valid? Choose all that apply.

+=5

+5

Q14:

Which of the following characters in JavaScript is used to concatenate two values?

+

Q15:

Which of the following operators is used to reduce the amount of code that would normally be required for an IF statement in JavaScript?

Ternary

Q16:

Which of the following loops is preferred due to a decreased amount of code to execute the same functionality?

For

Q17:

Which property on an object or array will return the number of values or properties?

Length

Q18:

Which of the following is not accurate syntax?

function myFunction()

Q19:

Given the following array, var cars = ["Volvo", "Mazda", "Toyota"] how would you access the value of Toyota?

cars[2]

To access the value **"Toyota"** in the array var cars = ["Volvo", "Mazda", "Toyota"];, you should use:

**cars[2]**

Q20:

Given the following array, var cars = ["Volvo", "Mazda", "Toyota"] how would you access the value of Mazda?

To access the value **"Mazda"** in the array var cars = ["Volvo", "Mazda", "Toyota"];, you should use:

**None of the above**

**Q21:**

Which program is an add into the Firefox browser that gives access to console development tools for JavaScript and other technologies?

Firebug

Q22:

Which of the following is an accurate syntax for linking to an external javascript file?

<script src="myscript.js"></script>

The correct syntax for linking to an external JavaScript file is:

**<script src="myscript.js"></script>**

**Q23:**

Which of the following uses the best practices for casing in JavaScript?

myVariableName

Q24:

What is wrong with the following statement: var a = 1; var b = 2; if (a = b) {//execute some code}

The if statement is incorrect and will always evaluate to true

The correct answer is:

**The if statement is incorrect and will always evaluate to true.**

Q25:

You should use a single equals sign in JavaScript to \_\_\_\_\_\_ a value

Assign

You should use a single equals sign in JavaScript to **Assign** a value.

Q26:

Which of the following is the correct way to return the current date and time in JavaScript?

Var date = new Date ();

The correct way to return the current date and time in JavaScript is:

***var date = new Date();***

Q27:

In a JavaScript if statement the parentheses indicate the code to be executed if the condition evaluates to True. True or False?

False

Q28:

Which type of loop is very similar in syntax to an if statement?

While

The type of loop that is very similar in syntax to an if statement is the ***While*** loop.

Q29:

Which option is available to prevent code developers from having to write large if statements that have multiple else if clauses?

Switch

Q30:

To create a loop or iteration you can simply replace the word if with which of the following?

While

For

To create a loop or iteration, you can simply replace the word if with **While** or **For**.

Q31:

Which of the following is the most frequently used type of loop?

For

Q32;

Which of the following is incredibly important when creating a loop to ensure that you don't write an infinite loop?

Increment the variable

The most important aspect when creating a loop to ensure that you don't write an infinite loop is to **Increment the variable**.

Q33:

You want to create a reusable section of JavaScript code that you can associate with an object. What keyword should you use to begin?

Function

Q34:

Which of the following keywords will terminate a loop once it is encountered?

Break

The keyword that will terminate a loop once it is encountered is **Break**.

Q35:

Which of the following keywords will terminate the current iteration of the loop when it is encountered but not the loop itself?

Continue

The keyword that will terminate the current iteration of the loop when it is encountered but not the loop itself is **Continue**.

Q36:

When you are working with external JavaScript files the files themselves do not contain script tags. True or False?

True

Q37;

Which of the following would be the proper syntax for writing an alert that said "Welcome to javaScript"?

alert("Welcome to javaScript")

The proper syntax for writing an alert that says "Welcome to javaScript" is:

**alert("Welcome to javaScript");**

Q38:

What is the appropriate syntax for creating a function in JavaScript?

function myFunction ()

The appropriate syntax for creating a function in JavaScript is:

**function myFunction() {}**

Q39:

Once a function has been declared what is the next step to using that function?

Invoking it

Once a function has been declared, the next step to using that function is **Invoking it**.

Q40:

What is the proper syntax for invoking a function that is called addNumbers()?

addNumbers()

The proper syntax for invoking a function called addNumbers() is:

***addNumbers*();**

Q41:

Which of the following is the correct syntax that you would use in order to declare an array of values called colors?

var colors = ["red", "green", "blue"]

The correct syntax to declare an array of values called colors is:

**var colors = ["red", "green", "blue"];**

Q42:

Which of the following code examples would round the number 6.75 to the nearest integer?

Math.round(6.75)

The code example that would round the number 6.75 to the nearest integer is:

**Math.round(6.75)**

Q43:

Given the values of a, b, and c how would you go about finding the highest value?

Math.max(a,b,c)

To find the highest value among a, b, and c, you would use:

**Math.max(a, b, c)**

Q44:

Which of the following is not accurate syntax?

var a = "This is a string

The option that is not accurate syntax is:

**var a = "This is a string**

Module 3:

Getting a handle on the DOM:

Introduction to the html document object model (DOM)

Accessing DOM elements

Changing DOM elements

Creating DOM elements

Responding to events on the page.

Introduction to the HTML DOCUMENT OBJECT MODEL (DOM):

The JavaScript code that we write does not operate in a vacuum, but instead it is attached to html web pages.

The web pages is the script upon, which we are working so we must be able to reach into the page to get information and have the page respond back.

Understanding the dom is the way to do that, it is an incedebly important part of understanding the functionality of javascript.

The web page is the script upon, which we are working so we must be able to reach into the page to get information and have the ability for the page to respond back to our code.

Understanding the DOM is the way to do that, it is an incredibly important part of understanding the functionality of JavaScript.

Module 3 quiz:

Q1:

What is the correct JavaScript syntax to change the content of the HTML element below? <p id="demo">This is a demonstration.</p>

document.getElementByName("p").innerHTML = "Hello World!";

document.getElementById("demo").innerHTML = "Hello World!";

The correct JavaScript syntax to change the content of the HTML element is:

**document.getElementById("demo").innerHTML = "Hello World!";**

Q2:

Which HTML event occurs when a user clicks on an element on the web page?

onclick

Q3:

You want to modify the content of an element with a class name of "important" on your page. Which of the following references would work?

Document.getElementsByClassName

To modify the content of an element with a class name of "important", the correct reference would be:

***Document.getElementsByClassName***

Q4:

Which of the following represents the best definition of the Document Object Model?

An API defining the logical structure of HTML files

The best definition of the Document Object Model (DOM) is:

***An API defining the logical structure of HTML files***

Q5:

An object in the DOM is \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

***An HTML element or attribute***

An object in the DOM is **an HTML element or attribute**.

Q6:

Which of the following methods would you use in the DOM in order to retrieve information about the source file of an <img> element on your page?

getAttribute()

The method you would use in the DOM to retrieve information about the source file of an <img> element is:

***getAttribute()***

Q7:

You have an unordered list on your page with an ID of "list1". You want to assign a variable to that particular object, which of the following lines of code will achieve this?

var list1 = document.getElementById("list1")

The correct line of code to assign a variable to the unordered list with an ID of "list1" is:

***var list1 = document.getElementById("list1");***

Q8:

You want to change the background color of the <p> element with an ID of "main". Which of the following would succeed in doing this?

Document.getElementById("main").style.backgroundColor = "yellow";

The correct way to change the background color of the <p> element with an ID of "main" is:

***document.getElementById("main").style.backgroundColor = "yellow";***

***Q9:***

*You want to change the background color on the first <h1> element on a page. This element has the ID of "intro" Which of the following would succeed in doing this?*

*Document.getElementById("intro").style.backgroundColor = "yellow";*

*The correct way to change the background color of the <h1> element with the ID of "intro" is:*

***document.getElementById("intro").style.backgroundColor = "yellow";***

Q10:

Which syntax would allow you to write new content into an HTML element using the DOM?

*Element.innerHTML*

The correct syntax to write new content into an HTML element using the DOM is:

***Element.innerHTML***

Q11:

Which of the following should you add to the code on a page if you wanted to create a button that changed styles when it was clicked?

<button onclick=changeStyles()>Click Me!</button>

The correct option to create a button that changes styles when clicked is:

***<button onclick=changeStyles()>Click Me!</button>***

Q12:

Which of the following would be used to add elements to an HTML page?

appendChild

The correct method to add elements to an HTML page is:

***appendChild***

Q13:

Which of the following would you use in order to change the image on an HTML web page, assuming the image has an Id configured as "img1".

Document.getElementById("img1").setAttribute("src" , "newimage.jpg")

The correct way to change the image on an HTML web page, assuming the image has an ID configured as "img1", is:

***document.getElementById("img1").setAttribute("src", "newimage.jpg");***

Q14:

Which of the following events would allow you to change the background color of a field when a user selects that field on the form?

onfocus

The correct event to change the background color of a field when a user selects that field on a form is:

**onfocus**

Q15:

You can change the behavior of a web page by adding JavaScript to modify and create HTML elements when the page loads. True or False?

True

Q16:

One of the advantages of the addEventListener () function is that it allows you to add more than one event listener to a single element. True or False?

True

Q17:

Which of the following is the proper syntax for add an Event Listener to a button with the id of "mybtn" on the page?

***element.addEventListener("click", function(){ alert("Hello World!"); });***

The correct syntax for adding an event listener to a button with the id of "mybtn" on the page is:

**document.getElementById("mybtn").addEventListener("click", function(){ alert("Hello World!"); });**

**Explanation:**

* **addEventListener("click", function(){ alert("Hello World!"); })**: This code correctly attaches a click event listener to the button. When the button is clicked, it will execute the function that displays an alert with the message "Hello World!".

Q18:

Which of the following can be used to create automatic page movements on elements?

***Animate***

Q19:

Which of the following could you use to display the title of a document using the DOM and JavaScript?

***Document.title***

The correct option to use for displaying the title of a document using the DOM and JavaScript is:

***document.title***

***module4:***

**Quiz**

**Q1:**

**Using this selector in jQuery what would be selected in the document? $("h1")**

**All h1s**

**The correct answer is:**

**All h1s**

**Q2:**

**Which of the following syntax options would be correct if you wanted to set the background color of all the p elements on the page to yellow?**

**$("p").css("background-color","yellow");**

**The correct syntax to set the background color of all the <p> elements on the page to yellow using jQuery is:**

***$("p").css("background-color", "yellow");***

**Q3:**

jQuery uses CSS selectors in order to select elements on the page in a precise manner. True or False?

True

**Q4:**

Using the selector $("h1.intro") in jQuery, which of the following would be selected?

All the h1 elements

All the h1 elements with a class of intro

The correct answer is:

***All the h1 elements with a class of intro***

**Q5:**

Which of the following methods in jQuery can be used to hide elements on the page?

Hide()

The correct answer is:

***Hide()***

**Q6:**

Which of the following jQuery methods would you use in order to modify the color and font type of elements on the page?

*Css()*

The correct answer is:

***Css()***

**Q7:**

Which of the following statements is true in regards to the use of jQuery on the web?

To use jQuery you can link to a public CDN from within your HTML file

The correct answer is:

***To use jQuery you can link to a public CDN from within your HTML file***

Q8;

Which of the following built-in functions in jQuery is used to prevent code from running before the document is finished loading?

$(document).ready()

The correct answer is:

***$(document).ready()***

Q9:

Which jQuery method is used to return the content including the markup of selected elements on the page?

Html()

The correct answer is:

***Html()***

**Q10:**

What would the following code in jQuery perform? $("p").css("background-color", "yellow");

It would modify all paragraphs to have a background color of yellow

The correct answer is:

***It would modify all paragraphs to have a background color of yellow***

**Q11:**

Using the following code <head> <script src="jquery-1.11.3.min.js"></script> </head> would configure your web page to use a CDN public version of jQuery. True or False?

False

**Q12:**

You want to modify the content of an element with a class name of "important" on your page. Which of the following references would work?

Document.getElementsByClassName

The correct answer is:

***Document.getElementsByClassName***

**Q13;**

Which of the following represents the best definition of the Document Object Model?

An API defining the logical structure of HTML files

The correct answer is:

***An API defining the logical structure of HTML files***

End of course quiz:

Q1:

Which attribute to the script tag tells HTML to use an external javascript file?

*src*

The correct answer is:

**src**

Q2:

Which of the following is the best representation of the role of JavaScript to the web page?

Provides the behavior of the page

The correct answer is:

***Provides the behavior of the page***

**Q3:**

What type of files are external JavaScript files?

Text files with a .js extension

The correct answer is:

***Text files with a .js extension***

**Q4:**

Which of the following development tools provides a console window that is used to debug code and is invaluable to developers?

*Firebug*

**Q5:**

Which of the following browsers should you avoid if you are working with JavaScript?

Internet Explorer 7

The correct answer is:

**Internet Explorer 7**

**Q6:**

**Which of the following creates a pop-up window in the browser that a developer must respond to in order to continue processing the page?**

**Alert**

**The correct answer is:**

***Alert***

**Q7:**

**Which of the following if done after the HTML is fully loaded would replace the HTML on the page?**

**document.write**

**Q8:**

**Which of the following is the most common way for developers to debug the JavaScript code that they write?**

**Console.log**

**The correct answer is:**

***Console.log***

**Q9:**

**Which of the following parts of JavaScript are case sensitive?**

**All of the above**

**Q10:**

**Which of the following characters is used in JavaScript to define the end of a statement?**

**;**

**The correct answer is:**

**;**

**Q11:**

**Which of the following cannot be the first character in a variable name?**

**5**

**Q12:**

**The individual instructions in JavaScript are referred to as functions. True or False?**

**False**

**Q13:**

**Which of the following components of a statement in javaScript is used to provide additional helpful information to developers?**

**Comments**

**Q14:**

**Which of the following operators is used to add two values together?**

**+**

**The operator used to add two values together is:**

**+**

**Q15:**

**Which of the following is not a comparison operator but instead is used to assign values?**

**=**

**Q16:**

**Which of the following is the proper symbol to reference the beginning of a section of comments that includes multiple lines?**

**/\***

**Q17:**

**Which of the following JavaScript statements are valid?**

**They are all valid**

**Q18:**

**Which of the following isn't proper camelcase that is recommended in JavaScript?**

**AddNumbersTogether**

**The option that isn't proper camelCase as recommended in JavaScript is:**

**AddNumbersTogether**

**Q19:**

**What is the primary difference between a variable and an array?**

**A variable only contains a single value**

**The primary difference between a variable and an array is:**

***A variable only contains a single value.***

**Q20:**

**Which of the following symbols are used with array?**

**[]**

**The symbol used with arrays is [].**

**Q21:**

**You have an array named values[] that has the values of "text", "number", and "string" in that order. You want to refer to the value of strings in your code. Which of the following should you use?**

**Values[2]**

**To refer to the value "string" in the values[] array, you should use:**

***Values[2]***

**Q22:**

**You want to increment a variable by 1 every time through a loop. Which of the following symbols should you use?**

**++**

**To increment a variable by 1 every time through a loop, you should use:**

**++**

**This is the increment operator in JavaScript. It increases the value of a variable by 1.**

**Q23:**

**You need to write code that will increase the value of a variable by 5. Which of the following is valid? Choose all that apply.**

**+=5**

**To increase the value of a variable by 5, the following options are valid:**

* **+= 5**

**Q24:**

**Which of the following characters in JavaScript is used to concatenate two values?**

**+**

**In JavaScript, the + character is used to concatenate two values (such as strings).**

**Q25:**

**What is the best description for the ==== operator?**

**returns true if both type and value are the same**

**The ==== operator returns true if both type and value are the same. This is known as the strict equality operator in JavaScript.**

**Q26:**

**Which of the following operators is used to reduce the amount of code that would normally be required for an IF statement in JavaScript?**

**Ternary**

**The operator used to reduce the amount of code required for an if statement in JavaScript is the Ternary operator. It allows you to write a concise conditional expression.**

**Q27:**

**Which of the following loops is preferred due to a decreased amount of code to execute the same functionality?**

**For**

**So, the correct answer is: For.**

**Q28:**

**Which property on an object or array will return the number of values or properties?**

**Length**

**The correct property to return the number of values in an array or the number of properties in an object is length.**

**Q29:**

**Which of the following is not accurate syntax?**

**new function ()**

**Q30:**

**Given the following array, <var cars = ["Volvo", "Mazda", "Toyota"] how would you access the value of Toyota?**

**cars[2]**

**To access the value of "Toyota" from the array cars, you would use:**

**cars[2]**

**Q31:**

**Given the following array, var cars = ["Volvo", "Mazda", "Toyota"] how would you access the value of Mazda?**

**None of the above**

**Q32:**

**Which program is an add into the Firefox browser that gives access to console development tools for JavaScript and other technologies?**

**Firebug**

**The correct answer is Firebug.**

**Q33:**

**Which of the following uses the best practices for casing in JavaScript?**

**myVariableName**

**Q34:**

**You need to determine if value x and value y are equal in both value and type. Which of the following comparison operators should you use?**

**==**

**===**

**To determine if value x and value y are equal in both value and type, you should use the === operator.**

**Q35:**

**Q35:**

**What is wrong with the following statement: var a = 1; var b = 2; if (a = b) {//execute some code}**

**The if statement is incorrect and will always evaluate to true**

* **The if statement is incorrect and will always evaluate to true.**

**Q36:**

**You should use a single equals sign in JavaScript to \_\_\_\_\_\_ a value**

**Assign**

**You should use a single equals sign in JavaScript to assign a value.**

**Q37:**

**Which of the following is the correct way to return the current date and time in JavaScript?**

**Var date = new Date ();**

**The correct way to return the current date and time in JavaScript is:**

**var date = new Date();**

**This creates a new Date object that holds the current date and time.**

**Q38:**

**In JavaScript, in the "if" statement the parentheses indicate the code to be executed if the condition evaluates to True. True or False?**

**False**

**Q39:**

**Which type of loop is very similar in syntax to an "if" statement?**

**While**

**Q40:**

**Which option is available to prevent code developers from having to write large "if" statements that have multiple else "if" clauses?**

**Switch**

**Q41:**

**To create a loop or iteration you can simply replace the word if with which of the following?**

**While**

**Q42:**

**Which of the following is the most frequently used type of loop?**

**For**

**Q43:**

**Which of the following is incredibly important when creating a loop to ensure that you don't write an infinite loop?**

**Increment the variable**

**Q44:**

**You want to create a reusable section of JavaScript code that you can associate with an object. What keyword should you use to begin?**

**Function**

**Q45:**

**Which of the following keywords will terminate a loop once it is encountered?**

**Break**

**Q46:**

**Which of the following keywords will terminate the current iteration of the loop when it is encountered but not the loop itself?**

**Continue**

**Q47:**

**When you are working with external JavaScript files, the files themselves do not contain script tags. True or False?**

**True**

**Q48:**

**What is the appropriate syntax for creating a function in JavaScript?**

**function myFunction ()**

**So the correct option is:**

**function myFunction ()**

**Q49:**

**Once a function has been declared what is the next step to using that function?**

**Invoking it**

**Q50:**

**What is the proper syntax for invoking a function that is called addNumbers()?**

**addNumbers()**

**The proper syntax for invoking a function called addNumbers() is:**

***addNumbers();***

**This calls or "invokes" the function, executing the code inside it.**

**Q51:**

**Which of the following is the correct syntax that you would use in order to declare an array of values called colors?**

**var colors = ["red", "green", "blue"]**

**The correct syntax to declare an array of values called colors is:**

***var colors = ["red", "green", "blue"];***

**This creates an array containing the three specified color strings.**

**Q52:**

**Which of the following code examples would round the number 6.75 to the nearest integer?**

**Math.round(6.75)**

**Q53:**

**Given the values of a, b, and c how would you go about finding the highest value?**

**Math.max(a,b,c)**

**Q54:**

**What is the correct JavaScript syntax to change the content of the HTML element below?**

**document.getElementById("demo").innerHTML = "Hello World!";**

**Q55:**

**Which HTML event occurs when a user clicks on an element on the web page?**

**onclick**

**Q56:**

**You want to modify the content of an element with a class name of "important" on your page. Which of the following references would work?**

***Document.getElementsByClassName***

**To modify the content of an element with a class name of "important," the correct reference would be Document.getElementsByClassName.**

**Q57:**

**Which of the following represents the best definition of the Document Object Model?**

**An API defining the logical structure of HTML files**

**The best definition of the Document Object Model (DOM) is "An API defining the logical structure of HTML files."**

**Q58:**

**An object in the DOM is \_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**An HTML element or attribute**

**An object in the DOM is "An HTML element or attribute."**

**Q59:**

**Which syntax would allow you to write new content into an HTML element using the DOM?**

***Element.innerHTML***

***The correct syntax to write new content into an HTML element using the DOM is Element.innerHTML.***

**Q60:**

**Which of the following would be used to add elements to an HTML page?**

***appendChild***

**The correct method to add elements to an HTML page is appendChild.**

**Q61:**

**Which of the following would you use in order to change the image on an HTML web page, assuming the image has an Id configured as "img1".**

***Document.getElementById("img1").setAttribute("src" , "newimage.jpg")***

**Q62:**

**Which of the following events would allow you to change the background color of a field when a user selects that field on the form?**

**Onfocus**

**Q63:**

**You can change the behavior of a web page by adding JavaScript to modify and create HTML elements when the page loads. True or False?**

**True**

**Q64:**

**One of the advantages of the addEventListener () function is that it allows you to add more than one event listener to a single element. True or False?**

**True**

**Q65:**

**Which of the following is the proper syntax for add an Event Listener to a button with the id of "mybtn" on the page?**

***element.addEventListener("click", function(){ alert("Hello World!"); });***

**Q66:**

**Which of the following can be used to create automatic page movements on elements?**

**Animate**

**Q67:**

**Which of the following could you use to display the title of a document using the DOM and JavaScript?**

**Document.title**

**Q68:**

**Which sign does jQuery use as a shortcut for jQuery?**

**$**

**Q69:**

**Using this selector in jQuery what would be selected in the document? $("h1")**

**All h1s**

**Q70:**

**Which of the following syntax options would be correct if you wanted to set the background color of all the p elements on the page to yellow?**

***$("p").css("background-color","yellow");***

**Q71:**

**jQuery uses CSS selectors in order to select elements on the page in a precise manner. True or False?**

**True**

**Q72:**

**Using the selector $("h1.intro") in jQuery, which of the following would be selected?**

**All the h1 elements**

**All the h1 elements with a class of intro**

**Q73:**

**Which of the following methods in jQuery can be used to hide elements on the page?**

**Hide()**

**Q74:**

**Which of the following jQuery methods would you use in order to modify the color and font type of elements on the page?**

**Css()**

**To modify the color and font type of elements on the page using jQuery, you would use the css() method.**

**Q75:**

**Which of the following statements is true in regards to the use of jQuery on the web?**

**To use jQuery you can link to a public CDN from within your HTML file**

**Q76:**

**Which of the following built-in functions in jQuery is used to prevent code from running before the document is finished loading?**

***$(document).ready()***

**Q77:**

**Which jQuery method is used to return the content including the markup of selected elements on the page?**

**Html()**

**Q78:**

**You would like to insert some content before a selected element on the page, which jQuery method should you use?**

***Before()***

**Q79:**

**What would the following code in jQuery perform? $("p").css("background-color", "yellow");**

***It would modify all paragraphs to have a background color of yellow***

**Q80:**

**Using the following code <head> <script src="jquery-1.11.3.min.js"></script> </head> would configure your web page to use a CDN public version of jQuery. True or False?**

**False**

**Q81:**

**Which of the following represents the best definition of the Document Object Model?**

**An API defining the logical structure of HTML files**

`