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A Short quiz

1) What is a correct way to add a comment in html?

- a) <comment>...</comment>
- b) /*...*/
- c) <!--...-->**
- d) *\\...*

2) How do you create an array in Javascript?

- a) var cars = array("Volvo", "BMW", "Toyota");
- b) var cars = ["Volvo", "BMW", "Toyota"];**
- c) var cars = array["Volvo", "BMW", "Toyota"];
- d) var cars = new ["Volvo", "BMW", "Toyota"];

3) What will be printed?

```
if ('02' == 2) {  
  document.write('true');  
} else {  
  document.write('false');  
}
```

- a) True**
- b) False
- c) Error will be shown in console

4) What will be printed?

```
var arr = {  
  0:'a',  
  3 : 'b',  
  1 : 'c',  
  4:'d'  
};  
for (var ind in arr){  
  document.write(ind);  
}
```

- a) 0134**
- b) 01234
- c) 0314
- d) 4130
- e) 43210

- 5) A variable that has no defined value is expressed in javascript with the following keyword:
- undefined
 - null
 - none
 - There is no such concept in javascript
- 6) `$("div#id1 .cl1")`. What does it select?
- The first element with `id="cl1"` inside any div element with `class="id1"`
 - All elements with `class="cl1"` inside the first div element with `id="id1"`
 - All div elements with `id="id1"` or `class="cl1"`
 - All div elements with `id="id1"` That also have the `class="cl1"`
- 7) Which jQuery method is used to switch between adding/removing one or more classes (for CSS) from selected elements?
- `switchClass()`
 - `toggleClass()`
 - `altClass()`
 - `switch()`
- 8) Look at the following selector: `$("div p")`. What does it select?
- The first p element inside a div element.
 - All div elements with a p element.
 - All p elements inside a div element.
 - None of the above.
- 9) Which jQuery function is used to prevent code from running, before the document is finished loading?
- `$(document).ready()`
 - `$(body).onload()`
 - `$(document).load()`
 - None of the above
- 10) Which jQuery method returns the all parents element of the selected element?
- `parents();`
 - `ancestors();`
 - `parent();`
 - `parent("all");`

11) What is Ajax? Write 3 Advantages using this method:

Answer: Ajax - is server access system without reloading the page. The main advantages of this method are: you can use Firefox browser with an add-on called as Firebug to debug all Ajax calls; get data from json files; response time is faster so increases performance and speed.

12) What is the difference between jQuery.get() and jQuery.ajax(), and what is the mandatory parameter for both of them?

Answer: ajax() method is more powerful and configurable, allows you to specify how long to wait and how to handle error, get() is a specialization to over ajax just to retrieve some data; mandatory parameter for both of them is url.

13) Using jQuery, mark all children of each <div> with: "border-bottom: 3px double blue" css.

For example:

HTML code	Result
<pre><body> <p>This is a paragraph.</p> <div><p>This is a paragraph within a division.</p></div> <p>Here is a another paragraph.</p> <div>This is a span element within a division.</div> </body></pre>	<p>This is a paragraph.</p> <p><u>This is a paragraph within a division.</u></p> <p>Here is a another paragraph.</p> <p>This is a span element within a division.</p>

Answer: task and example are different, I mean that if we want to select and mark ALL children for each <div> answer will be `$('div>*').css('border-bottom','3px double red');` but ``, that last div includes also will be marked, on the other hand if we want to select all tags `<p>`(according to example) answer will be `$('div>p').css('border-bottom','3px double red');`.

14) Using jQuery, count all <p> elements in body which have the text "click". Append to body a <div> element with the number of paragraphs with such word, with underlined style.

For example:

HTML code	Result
<pre><body> <p>hello, click here.</p> <p>I have just right clicked here.</p> <p>and again here.</p> </body></pre>	<p>hello, click here.</p> <p>I have just right clicked here.</p> <p>and again here.</p> <p><u>Total paragraphs found: 2</u></p>

Answer: `let value = $('p').text().split("e").length - 1);`

`let appendedDiv = `<div> Total paragraphs found: ${value}</div>`;`

`$('#body').append($(appendedDiv).css('text-decoration','underline'));`

I thought that using additional variable makes code a bit longer but a bit simpler.)

15) What is the result of the following code? Explain your answer.

```
var fullname = 'Hello World';
var obj = {
  fullname: 'my name',
  prop: {
    fullname: 'Not my name',
    getFullname: function() {
      return this.fullname;
    }
  }
};

console.log(obj.prop.getFullname());

var test = obj.prop.getFullname;

console.log(test());
```

Answer: First console.log will show 'Not my name' because keyword 'this' will choose propertie 'fullname' inside function 'prop'. After this we created variable 'test' that don't have any access to local properties 'fullname' inside function 'prop' and object 'obj' and last console.log will show 'Hellow world' because 'this' has access only to grobal variable 'fullname'.

16) What is the grid size in Bootstrap 4?

Answer: Grid size in Bootstrap 4 has 12 columns.

17) How to make elements visible or hidden based on device screen?

Answer: With using class '.d-{value}' for xs and '.d-{breakpoint}-{value}' for sm, md, lg, and xl.