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Continuing Education Course #191
Web-Based Programming For Engineers - Part 2

1. What is a scripting language?
 - a. A programming language that can integrate and communicate with a web browser.
 - b. A markup language used to display web pages.
 - c. A part of the operating system that regulates the web browser.
2. Which of the following is accurate regarding codes written in a scripting language?
 - a. The codes are interpreted and executed directly by the web browser.
 - b. The codes are converted to machine language by the browser and then implemented.
 - c. The codes are converted by the compiler and then sent to the web browser for execution.
3. What is a main purpose of adding code written in a scripting language to a web page?
 - a. To make the web page recognizable to a search engine.
 - b. To create a web page that can interact with the user.
 - c. To enhance the security of the web page.
4. Which of the following HTML tags declares the HTML document to the web browser?
 - a. `<!DOCTYPE html document>`
 - b. `<!DOCTYPE html>`
 - c. `<html !DOCTYPE >`
5. What are HTML form controls?
 - a. Special codes that manage the elements on the web page.
 - b. Virtual forms that drive the web page.
 - c. Objects that enable a user to interact with the web page e.g. click buttons, text boxes etc.
6. What will the following HTML tags do?


```
<form><input type = "text"></form>
```

 - a. A line of text will be added to a form that resides on the web page.
 - b. A line of text will be added to the web page.
 - c. A text box will be added to the web page.
7. What is the difference between a text box control and text area control?
 - a. There is no difference, they are synonymous.
 - b. The text area tags do not need to be embedded in the form tags.
 - c. The text area can hold significantly more text than a regular text box.
8. What is one advantage of using a combo box for data entry on a web page?
 - a. The user may update the items listed in the combo box.
 - b. The code will require fewer tags than a regular text box.
 - c. The user must select from the drop down list, hence data entry errors are minimized.

9. The following tags will add what control onto the web page?

```
<form>
  <button type = "button">caption</button>
</form>
```

- a. A click button
- b. A login button
- c. A reset button

10. What does the onclick event of a button control do?

- a. It resets the web page.
- b. When the button is clicked on, the codes written for the onclick event of that button will execute.
- c. It sends the data entered in the form controls to the server.

11. What is the difference between the name attribute and the id attribute of a form control?

- a. The name attribute establishes a unique reference to that control on the web page. The id attribute uniquely identifies that control on the form.
- b. The name attribute establishes a unique reference to that control on the form. The id attribute uniquely identifies that control on the web page.
- c. Both attributes can be applied interchangeably.

12. Study the following code.

```
<input type = "checkbox" checked = "true" value = "1" name = "check101">I Agree
```

Which of the following is correct?

- a. The check box is checked and checkbox101.value = "I Agree"
- b. The check box is checked and has a value of 1.
- c. The check box is currently checked and will have a value of 1 whether it is checked or not.

13. What is the difference between a radio button and an option button?

- a. A radio button can have up to five options.
- b. An option button has no labels.
- c. There is no difference, they are synonymous.

14. A block of code written in a scripting language, such as JavaScript, and embedded within an HTML document to provide instructions for an event of a control, is commonly called a

- a. script
- b. block
- c. script block

15. Which of the following declares to the browser that JavaScript is the scripting language being used?

- a. document.write("JavaScript")
- b. <script language = "JavaScript">
- c. <script type = "language/javascript">

16. Study the following script.

```
<script>
  // introduce yourself to your audience
  document.write("Hello and Welcome. We are a full service engineering company");
</script>
```

Which of the following statements is correct?

- a. The first line within the browser will be executed but hidden from view on the web page.
- b. The first line within the script will be ignored by the browser.
- c. All lines of code will be executed and displayed. .

17. Which of the following will create a comment that spans over multiple lines?

- a. `*/ /*`
- b. `/* */`
- c. `/** /**`

18. Which of the following will NOT result in a variable being successfully created or assigned a value?

- a. `var 2k_factor = 1.71;`
- b. `var ProductWeight = 6.5;`
- c. `$hconstant = 24;`

19. Study the following code.

```
var myHeader = "Maintenance of Traffic:" ;  
var myOption = "Type II Barricade" ;  
var myReport = myHeader + "\n" + myOption ;
```

What is the final value of the variable myReport?

- a. Maintenance of Traffic: Type II Barricade
- b. Maintenance of Traffic:
Type II Barricade
- c. Type II Barricade

20. Study the following code.

```
var x = 2 ;  
x = x++ ;  
document.write (x) ;
```

What final value of x will be displayed on the web page?

- a. 4
- b. 3
- c. 8

21. Which of the following is a valid name for a function in JavaScript?

- a. `_CalcDischarge`
- b. `#CalcDischarge3`
- c. `Calculate Discharge_6`

22. Which of the following functions will return a value to the web page at the location it was called?

- a.

```
function calcDelay (37, 24.75 )  
    {Hours * Rate ;}
```

b.

```
function calcWages (37, 24.75 )  
    {return Hours * Rate ;}
```

c.

```
function calcWages (37, 24.75 )  
    { Hours * Rate ; return ;}
```

23. Which of the following statements is correct?

- a. A local variable "dies" only when the web page closes.
- b. A global variable "dies" once the function in which it was declared completes execution and terminates.
- c. A local variable "dies" once the function in which it was declared completes execution and terminates.

24. Which of the following is a built-in function in JavaScript?

- a. Application.sort()
- b. Math.sqrt()
- c. WorksheetFunction.Average()

25. Which of the following statements is the most accurate?

- a. Programming in JavaScript is easy because the web browser corrects your errors for you.
- b. Programming in JavaScript requires a careful and meticulous approach.
- c. It is not necessary to test all codes because the HTML tags will isolate potential errors.

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