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Continuing Education Course #192  
Web-Based Programming For Engineers - Part 3

1. What is the value of x at the end of this JavaScript script?

```
var x = 5;
var y = 2;
if (x > y)
  {
    x = x + y;
  }
else
  {
    x = x - y;
  }
```

- a. 3.
- b. 7
- c. 5

2. What is the value of x at the end of this JavaScript script?

```
var x = 5;
var y = 2;
if (x > y && y >3)
  {
    x = x / y;
  }
else
  {
    x = x * y;
  }
```

- a. 2.5.
- b. 10
- c. 5

3. A conditional statement embedded within another conditional statement is known as.

- a. an embedded conditional statement.
- b. a nested conditional statement.
- c. an internal conditional statement.

4. What is the value of the variable inspectionResult at the end of this JavaScript script?

```
var rating = 89;
var inspectionResult = (rating <= 70)?"Approved" : "Denied" ;
```

- a. Approved
- b. Denied
- c. Null

5. What value will be displayed on the web page as a result of the following JavaScript script?

```
var xstate = 0.5;
switch(xstate)
{
1:      document.write("ON");
        break ;
0:      document.write("OFF");
        break ;
default: document.write("Device malfunction")
}
}
```

- a. ON.
- b. OFF.
- c. Device malfunction.

6. Which of the following codes, in JavaScript, will inform the user that they entered an incorrect password?

- a. `Msgbox("You have entered an incorrect password !");`
- b. `popup("You have entered an incorrect password !");`
- c. `alert("You have entered an incorrect password !");`

7. A user entered an incorrect password on a web page. Which of the following codes, in JavaScript, will present the user with a popup box that gives the user the option to reenter their password, or to abandon the process?

- a. `popup("Click on OK to reenter your password, otherwise click on Cancel");`
- b. `confirm("Click on OK to reenter your password, otherwise click on Cancel");`
- c. `alert("Click on OK to reenter your password, otherwise click on Cancel");`

8. Study the following JavaScript code.

```
var m = 0;
for (var i = 1; i < 3 ; i++ )
{
    m = 2m + i;
}
```

What is the value of the variable m at the end of the loop?

- a. 1
- b. 4
- c. 11

9. Study the following JavaScript loop.

```
var i = 0 ;
var y = 0
while (y < 9)
{
    y = y + 3i;
    document.write(y + "<br>") ;
    i++ ;
}
```

What is the last value of `y` that will be displayed on the web page?

- a. 9
- b. 18
- c. 3

10. What is the difference between the while loop and the do while loop?

- a. There is no difference for all intents and purposes.
- b. In the while loop the condition is checked at the beginning of the iteration, whereas in the do while loop, it is checked at the end.
- c. In the while loop the condition is checked at the end of the iteration, whereas in the do while loop, it is checked at the beginning.

11. Which of the following statements is correct?

- a. JavaScript does not support nested loops.
- b. In JavaScript, loops cannot be nested in conditional statements.
- c. In JavaScript, all types of loops can be nested within each other, and within conditional statements, and vice versa.

12. What keyword will cause abrupt termination of a loop?

- a. `break;`
- b. `GoTo;`
- c. `Exit;`

13. Which of the following is NOT a method for creating objects in JavaScript?

- a. The `new` keyword.
- b. The object constructor function.
- c. The `new constructor statement`.

14. Study the following code.

```
var dteBuilt = new Date(99, 6, 18, 10,20,00) ;
document.write(dteBuilt) ;
```

What is the date associated with the variable `dteBuilt`?

- a. June 18, 1999
- b. July 18, 1999
- c. October 6, 1999

15. Study the following code.

```
var dteInfo = "Calibration" ;  
var strValue = dteInfo[6] ;
```

What is the value of strValue?

- a. "r"
- b. "a"
- c. "t"

16. Study the following code.

```
var dteInfo = "Calibration" ;  
var strValue = dteInfo.length ;
```

What is the value of strValue?

- a. 10
- b. 11
- c. 12

17. Study the following code.

```
var dteString = "Maintenance" ;  
dteString = dteString.toUpperCase() ;  
document.write(dteString) ;
```

What text is displayed on the web page?

- a. "MAINTENANCE"
- b. "mAINTENANCE"
- c. "maintenance"

18. Which of the following are special characters in JavaScript?

- a. \r, \n, \t
- b. \?, \}, \&
- c. \6, \++, \z

19. Study the following code.

```
var prjDesc = ["Site Plan", "Easement"] ;  
var prjQuantity = ["212256", "46"] ;  
var prjReport = prjDesc.concat(prjQuantity) ;
```

What is the final value of prjReport?

- a. ["Site Plan", "Easement", "212256", "46"]
- b. ["212256", "46", "Site Plan", "Easement", ]:

c. ["Site Plan", "Easement"] ;

20. Study the following code.

```
var prjDesc = ["Site Plan", "Easement"] ;  
prjDesc.toString();
```

What is the method toString() doing?

- a. It concatenates elements of the string.
- b. It converts a string into an array.
- c. It converts an array into a string.

21. Study the following script.

```
<script>  
alert("Available Width: " + screen.availWidth);  
</script>
```

What information will the popup box display?

- a. The screen width of all computers of the type and model that you are using.
- b. The screen width of the specific computer you are using.
- c. The screen width of the computer on which the web page was created.

22. Interpret the following codes.

```
var myClock=setInterval(function(      ){fnTimeClock( )},1000) ;
```

- a. The function fnTimeClock will be executed automatically every 1000 seconds.
- b. The function fnTimeClock will be executed automatically every 1000 milliseconds.
- c. The function setInterval will be executed automatically every second.

23. What is a cookie?

- a. A text file that contains some data, put on your computer by a web page when you visit it.
- b. A text file sent from your computer to a web page to identify who you are.
- c. A text file that identifies you and enables you to access multiple websites.

24. Study the following script.

```
var txtVar="";  
try  
{  
    cofirm("Would you like to search the database at this time?");  
}  
catch(err)  
{  
    txtVar+="Error message property: " + err.message ;  
    alert(txtVar);  
}
```

- a. Error number property: -21659874
- b. Error message property: 'confirm' is undefined
- c. Error message property: 'alert' is undefined

25. After uploading your files to a web host, which of the following is **NOT** recommended?

- a. Test your web pages and all scripts to confirm they work as intended.
- b. Click on all links and controls and confirm their associated scripts execute as intended.
- c. Testing your web pages and scripts is optional as the server will check and correct any errors.

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