Continuing Education Course #190
Web-Based Programming For Engineers - Part 1

1. The software that manages and coordinates a computer's memory, storage, processes, and all of its software and hardware is called the
○ a. Graphical User Interface.
○ b. Server.
○ c. Operating system.

2. An interconnected group of computers that can communicate with each other and also share and exchange information is called a
○ a. computer network.
○ b. web network.
○ c. interconnected network.

3. What is a web browser?
○ a. Special software that enables a computer on the internet to communicate with other participating computers.
○ b. Special software that compiles instructions given to the computer.
○ c. A network of computers and groups of computers.

4. What is the difference between the Internet and the World Wide Web?
○ a. There is no difference, they are synonymous
○ b. The Internet is a network of interconnected computers whereas the World Wide Web is the virtual documents that reside on computers on the Internet
○ c. The World Wide Web is a network of interconnected computers whereas the Internet is the virtual documents that reside on computers on the World Wide Web

5. What is a markup language?
○ a. It is a computer programming language used to implement algorithms.
○ b. A markup language is a combination of keywords and symbols that provide instructions to a web browser on how a document should appear.
○ c. A markup language is "light" version of a programming language used for web applications.

6. The following are examples of scripting languages.
○ a. *Visual Basic, Visual C++.*
○ b. *C++, C#.*
○ c. *VBScript, JavaScript.*

7. What will the html tags `<html> </html>` do?
○ a. Send the embedded code to the web browser.
○ b. Establish the beginning and the end of the HTML code in the text file.
○ c. Create a new HTML document.

8. The html tags `<p> </p>` will

○ a. create a new web page.
○ b. give the font a heading format.
○ c. create a new paragraph on the web page.

9. In the current HTML5 standard, a web page text file may be saved with the suffix
○ a. *.html* or *.htm*
○ b. *.js* or *.webpage*
○ c. *.gml* or *.ghtml*

10. What is the Uniform Resource Locator (URL)?
○ a. It is the name of the server that holds the web page.
○ b. It is the path to the physical location where the web page resides.
○ c. It is the setting option that determines how the web browser will display the web page.

11. Which of the following html tags will be recognized by the browser as a comment?
○ a. `<-- ! This is a reminder. ! -->`
○ b. `<!- This is a reminder. ->`
○ c. `<!-- This is a reminder. -->`

12. How is a table created in a web page?
○ a. `<table> ... </table>`
○ b. `<tab> ... </tab>`
○ c. `<table>`

13. Which of these tags will create a new row in a table?
○ a. `<table><td>...</td></table>`
○ b. `<table><row>...</row></table>`
○ c. `<table><tr>...</tr></table>`

14. Study the following html tags.

```
<table>
        <tr>
                <td> ... </td>
                <td> ... </td>
        </tr>
</table>
```

○ a. The table has two rows and one column.
○ b. The table has two rows and two columns
○ c. The table has one row and two columns

15. Study the following html tags.

```
<table>
        <tr>
                <td width = "400"> ... </td>
                <td> ... </td>
        </tr>
</table>
```

○ a. The width of the first column is 400 pixels, the width of the second column is zero.
○ b. The width of the first column is 400 pixels, the width of the second column is the total width available on your computer monitor minus 400 pixels.
○ c. The width of both columns is 400 pixels.

16. Study the following html tags.

```
<table>
        <tr>
                <td width = "20%"> ... </td>
                <td> ... </td>
                <td width "10%"> ... </td>
        </tr>
</table>
```

○ a. The width of the first column is 20 pixels.
○ b. The width of the second column is 70% of your screen width.
○ c. The width of the third column is 10% of the total of the first and second columns' widths.

17. Which of the following will impart a solid border to the entire table?
○ a. `<table > <tr >...</tr> </table style = "border: 2px: solid black">`
○ b. `<table > <tr style = "border: 2px: solid black">...</tr> </table>`
○ c. `<table style = "border: 2px: solid black"> <tr>...</tr> </table>`

18. Background colors may be added to the cells of a table by assigning a color value to the bgcolor attribute. The color value may be entered by
○ a. Name, Hexadecimal value, or RGB value.
○ b. color code number only.
○ c. color code number or RGB value only.

19. Which of the following will create a clickable link on the web page?
○ a. `<a href# = www.mycompany.org > Click to go to our company website </a>`
○ b. `<a href = www.mycompany.org > Click to go to our company website </a>`
○ c. `<a #href = www.mycompany.org > Click to go to our company website </a>`

20. Study the following code.

```
<a href = www.mywebsite.com   target ="_blank"> Click here </a>
```

What is the purpose of the target attribute?

○ a. It has no specific purpose, it is another style of creating a link.
○ b. It opens the link in a new browser window or tab.
○ c. It opens the link in a new browser window and closes any other open browser window.

21. Study the following code.

```
<img src="c:\Pictures\main_building.jpeg" alt="Main">
```

- ○ a. A picture residing in the Main folder.
- ○ b. A jpeg picture file residing in the folder Pictures on the local hard drive.
- ○ c. A picture or video file residing on the local hard drive.

22. Which of the following will embed a video on the web page?
- ○ a. `<embed src=" c:\Pictures\training.mp4" height="200" width="200">`
- ○ b. `<embed src="training " height="200" width="200">`
- ○ c. `<embed src=" c:\Pictures\training " height="200" width="200">`

23. Which of the following is NOT an advantage of using an external cascading style sheet?
- ○ a. It increases the amount of code in your HTML files
- ○ b. It makes the editing and updating of web pages more efficient.
- ○ c. It helps reduce errors during development, editing, and updating.

24. Study the following code in a .css file linked to your web page.

```
p  { font-size: 11pt; font-family: Georgia, Garamond, Serif}
td {padding:10px; border: 2px solid black }
li {color: blue }
```

- ○ a. The text in any new cell in a table on the web page will be of font size 11 by default.
- ○ b. All text within a paragraph on the web page will appear in blue font.
- ○ c. Items in a list will appear in blue font by default.

25. For a web page to go "live" online
- ○ a. The web page must be saved in a special internet folder on your desktop.
- ○ b. The html file must be uploaded to a cloud computing service.
- ○ c. The html file must be uploaded to a hosting web server.

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