Name:	ID:	Signature:
Name.	ID.	Signature.



İSTANBUL TECHNICAL UNIVERSITY

Department of Computer Engineering

BLG103E - Introduction to Information Systems - Fall 2017

Quiz 1 Question & Answer Sheet

Duration: 40 minutes. **There are <u>14</u> questions.**

Rules: - Not open-book. No extra notes or papers are allowed.

- Cellphones must be put away. Calculators are not allowed.



1.

I used Geany to create an HTML web page and I saved it as a file called *page.jpg*. What is most likely to happen when I open the file from my file manager?

2.

I receive an email from a friend and in it is written text like the following:

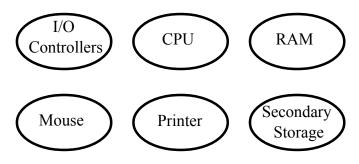
Bir ışık düÅŸerse þstþne basma.

What is most likely to have happened here?

- **A** My friend wrote something on Linux but it is being viewed on Windows.
- **B** My friend wrote something on Windows but it is being viewed on Linux.
- C My friend wrote the text with HTML character references but I am viewing it as plain text.
- **D** My friend wrote the text in plain text but I am viewing it as HTML with character references.
- **E** My friend wrote something in Windows-1251 but I am viewing it as UTF-8.
- F My friend wrote something in UTF-8 but I am viewing it as Windows-1251.
- **G** There was some corruption of data in memory.
- H There was some corruption of data on disk.

3.
Please expand the following acronyms:
CSS:
CPU:
HTML:
RAM:
CMYK:

Please complete the unfinished diagram of part of a computer architecture below to connect the parts by drawing connecting lines representing the system bus or similar connection and any extension buses, labelling each.



5.

For each below data-storage purpose, please write the name and mime-type of a file type appropriate for that purpose. The first is partially done.

Purpose	File type	MIME type	Extension
Content of web pages	HTML		.html or .htm
Photos for sharing			
Image for editing with GIMP			
Vector graphics			
An uncompressed archive			
A compressed archive of files			
A LibreOffice Calc spreadsheet			

6.

In the following example spreadsheet, please write into the bottom left blank cell a formula to calculate the average of the numbers above it, without using range functions. In the blank cell on the bottom right write a formula to calculate the average of the numbers above it, using a range function. Write the formulae as you would need to write them into LibreOffice Calc.

7	16
35	26

7.

Please write down the smallest segment of HTML code that you can think of that would validate as HTML 5.

Name:	ID:Signatu	ire:			
8.					
Using Git, in order to store a change fixing a syntax problem with file <i>page.html</i> and share it on GitHub I would need to do which of the following operations in which order? Put 1,2, 3 and 4 in the boxes next to the operations, with 1 being the first and 4 being the last.					
git add page.html	Click "choose	your files".			
Click "Upload Files"	git merge page.html				
git push	git commit -m "Bugfix: fix HTML syntax"				
git pull	Enter commit message.				
Select page.html.	Right click on				
git push page.html	Click "Commit				
9.					
	y converting the format of the numbers	in the empty cells:			
Hexadecimal	Binary	Decimal			
0x11					
	0b11001100				
		11			
0x2A					
10.					
Please match the words on the left to t	he definitions on the right.				
Node • • A c					
	ı				
-	• A set of pixels or image primitives that are active and ready to be manipulated.				
	Fill • • The smallest spatial unit of a raster image				
	• Force image objects to arrange themselves according to a regular pattern in the image.				
	 Force image objects to coordinate their locations along a consistent axis in the image. A way of selecting pixels using a curve defined by the movement of the mouse. 				
	• A small image used for painting (or the way it is applied the image).				
	The fundamental element of a path.				
11.					
In the following, circle functions that are performed by operating systems. You can circle multiple options.					
Arranging input voltage.	Converting source code into machine code.	Providing an interface to basic software operations.			
Arranging interactions between programs	Providing an interface to hardware.	Starting programs.			

12.

Please draw lines between the concepts on the right and all examples of those concepts on the left (examples may match multiple or no concepts).

CMYK • • Red green and blue.
RGB • • Additive color.
Brightness • • Subtractive color.
Contrast • • Printer ink.

13.

Read the following CSS and answer the questions that follow assuming the CSS is linked into an HTML file:

```
p.conclusion {
        color: #ff0000;
}
p {
        font-family: "Courier New", Courier, monospace;
}
.understated {
        font-size: 0.75em;
}
```

How will HTML elements like Text be displayed?

How will HTML elements like class="conclusion">Text be displayed?

How will HTML elements like class="understated">Text be displayed?

14.

Assuming the path /home/alovelace/Desktop/CV.pdf exists, is a PDF file, and is the only file in its folder, what would be the result of running each of the following three sets of commands?

LS /home/alovelace/Desktop/

cd /home/alovelace/Desktop geany ../Desktop/CV.pdf

cd/home/alovelace/Desktop/CV.pdf