

Name: _____ ID: _____ Signature: _____



İSTANBUL TECHNICAL UNIVERSITY
Department of Computer Engineering
BLG103E – Introduction to Information Systems – Fall 2014
Quiz 1 Question & Answer Sheet

QUIZ 1

Duration: 40 minutes.

- Rules:**
- Not open-book. No extra notes or papers are allowed.
 - Cellphones must be put away. Calculators are not allowed.

1.

A computer is a device that processes _____ under control of a _____ program.

2.

To make changes to data permanent we need to:

- A Transfer it to memory.
- B Compress it.
- C Turn it into binary/hexadecimal.
- D Transfer it to secondary storage.
- E Upload it to web space using FTP.

Circle one letter.

3.

An operating system is needed to:

- A Provide the voltage to push information through external I/O.
- B Provide a graphical interface for a user to use the computer.
- C Provide a high level interface to hardware and to manage resources.
- D Allow programmers to see the output of programs as they are editing them.
- E An operating system is only needed for older computers.

Circle one letter.

4.

In the computer world, why do we use **binary** to represent numbers, text, images, etc.?

- A It is an arbitrary convention.
- B In order to be able to use the ASCII encoding.
- C Because the copyright for decimal was already owned.
- D It is easier to read than analogue.
- E Because it is simpler to create machines that use it.

Circle one letter.

Name: _____ ID: _____ Signature: _____

5.

Place the following examples in the correct category in the below table:

USB - Android - hard disk - mouse - RAM - LibreOffice Writer

Category	Example
Application	
O/S	
Input device	
Extension bus	
Secondary storage	
Memory	

6.

Convert the following hexadecimal number to binary:

0xF0 - _____

Convert the following binary number to hexadecimal:

00110011 - _____

7.

Put **one tick in each row** to match each type string to its appropriate description.

Type string	Compressed file MIME type	Plain text file MIME type	Image file MIME type	Compressed file extension	Plain text file extension	Image file extension
image/bmp						
.zip						
application/x-zip						
.bmp						
text/plain						
.txt						

Name: _____ ID: _____ Signature: _____

8.

Give an example of a character encoding that can represent Turkish characters but not Chinese:

Give an example of a character encoding that can represent English characters but not Turkish:

Give an example of a character set that can represent English, Turkish and Chinese characters:

9.

In word processing, separating style and content is good because:

- A** It is easier to compress the data that way.
- B** Style and content should not be separated.
- C** Style has no place in word processing.
- D** Content and style can each be changed without affecting the other.
- E** The content is not easily read if too close to the style.

Circle one letter.

10.

Classify the following as either BLOCK or INLINE content types.

Paragraph: _____

Internet link (URL): _____

List: _____

Table: _____

Text emphasis: _____

Write either BLOCK or INLINE in the spaces provided.

11.

In spreadsheets, give an example of:

An expression	
A formula	
A function	

Name: _____ ID: _____ Signature: _____

12.

In an LibreOffice Calc spreadsheet, the following contents are entered in the following cells:

	A	B
1	=B1*2	5
2	=B2/8	=A1*2

Please fill in the resulting displayed contents of the cells A1,A2, B1 and B2:

	A	B
1		
2		

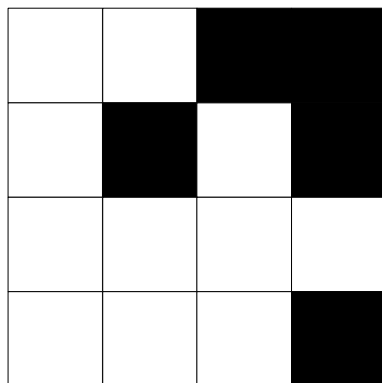
13.

Complete the following table.

RGB	Colour
(255,255,255)	White
(255,0,0)	
	Black
	Yellow
	Green

14.

Assuming that the following image is a 1-bit image, convert it to a bitstring, and convert the bitstring to hexadecimal.



Bitstring:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Hexadecimal:

--	--	--	--