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



İSTANBUL TECHNICAL UNIVERSITY

Department of Computer Engineering

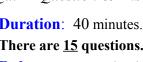
BLG103E – Introduction to Information Systems – Fall 2015

Ouiz 1 Question & Answer Sheet

Duration: 40 minutes. There are 15 questions.

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

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





1.

✓ Tick <u>all</u> cells for which the item on the left is an example of the category at the top.

Item	Hardware	Software	Operating System	Application	Extension Bus	Secondary Storage	I/O device
GNU/Linux							
Mouse							
Inkscape							
Android							
USB							
Hard Drive							
Geany							

You can tick more than one cell for each item.

2.

I have to write an essay for my Computer Ethics class. I made a plain text file encoded in ASCII. It is a 3000 word long essay. Approximately how big will the file size be?

- **A** 5 kilopixels (5 KP).
- **B** 5 megapixels (5 MP).
- C 20 kilobytes (20 KB).
- **D** 20 megabytes (20 MB).
- E 10 pixelbytes (10 PB).
- F 10 megakilos (10 MK).

Circle one letter.



I then convert the text encoding of my plain-text essay file from ASCII to UTF-8 and save the file. Approximately how will the file size change after this operation? The essay is in English:

- A The new file will be a approximately a quarter of the size of the original $(\frac{1}{4}X)$
- **B** The new file will be a approximately half the size of the original $(\frac{1}{2}X)$
- C The new file will be a approximately the size of the original $(1\times)$.
- **D** The new file will be a approximately twice the size of the original $(2\times)$.
- E The new file will be a approximately four-times the size of the original $(4\times)$.

Circle one letter.

	ID:	ID:				
I.						
_	g table of file types and	d their properties. The fir	st row is d	one for you.		
MIME Type	Human/Machine Readable?	Typical file extension			Purpose	
application/pdf	Machine	.pdf	Evince	, Okular	Portable docume	
image/svg+xml		.svg				
text/plain						
text/html						
		.jpg				
		.png				
application/zip						
E HTML. F Music. Circle all that apply.						
Use the table on the right to convert the following text to ASCII hexadecimal			Γ	D4-1 ACCII 4-LI		
Jse the table on the ri	ght to convert the follow	wing <u>text</u> to <u>ASCII hexac</u>	decimal.	Partial ASCII tabl		
Jse the table on the ri	ght to convert the follow	wing <u>text</u> to <u>ASCII hexac</u>	decimal.	Character	Hexadecimal	
	ght to convert the follow	wing <u>text</u> to <u>ASCII hexac</u>	decimal.			
ABBA:	ght to convert the follow		decimal.	Character A	Hexadecimal 0x41	

B Cannot be changed.

Circle one letter.

C Is a multi-operand conditional expression resulting in True.

D Is a record of your complete history of activity with respect to that file.

E Is an infinite sequence of file nodes that occurs when there are circular references.

Name:			ID:	Signature:
8.				
Name	a w	ay that name-value pairs are	e used in HTML:	
Name	a w	ay that name-value pairs are	e used in CSS:	
9.				
Multite	aski	ing on modern computers is	achieved by:	
	A	Increasing the number of c	cores per CPU.	
	B	Increasing the number of C	CPUs.	
	C	Open-source systems.		
	D	Rapidly switching between	n programs.	
	E	The use of multiple deskto	ps or windows.	
Circle	on	e letter.		
For ea vector	ima		_	ciple, be better represented in a computer by a raster or
		rtoon/comic designed for pu		
		rtoon/comic acquired by a s		
	Ch	art output by a spreadsheet:		
	Οι	atput of a 3D modelling prog	gram with much	texture, shadows and detail:
Write	eitl	ner RASTER or VECTOR	in the spaces p	rovided.
11. Name	one	technique for lossless comp	<i>oression</i> of any k	ind of data:
Name	one	technique for lossless comp	pression designed	d for images:
Name	one	technique for lossy compre	ession designed for	or images:

Name:	ID:	Signature:	
12.			
Name or describe the col RGB colours:	our (in English or Turkish) from th	e following hexadecimal numbers rep	resenting 24-bit
0xff0000:	0x0000FF:	0xaaaaa:	
0x333333:	0xFFFF00:	0xffffff:	
13.			
For each of the following	g concepts, write if it is a concept for	ound associated with vector images or	raster images:
Pixels:	Paths: _		
Control Points:	Resolut	on:	
Write either VECTOR	or RASTER in the spaces provid	ed.	
14			
14.			
	syntax of the following HTML elengoogle.com" A link to go		
<pre></pre>	text/p>		
<div>A division o</div>	of text		
15.			
For each of the concepts,	, name a language or application fro	om which it comes:	
Selectors:	Style properties	:	
Tags:	Flements:		
	Diements.		
Formulas:	Absolute addre	ssing:	_