

PALESTINE POLYTECHNIC UNIVERSITY
COMPUTERS AND PROGRAMMING PRINCIPLES
QUIZ#1 ** FALL 2024
INSTRUCTOR: ENG. YOUSEF SALAH

Name: -- [REDACTED]

ID:-- [REDACTED]

Q1) State whether each of the following statements is TRUE or FALSE.

Statement		TRUE / FALSE
[1]	SSD is an electro-mechanical storage device.	F
[2]	An embedded computer is a special-purpose computer.	T
[3]	A Joystick is an output device.	F
[4]	Servers have more processing power than Personal Computers.	T
[5]	Web-email is an example for desktop application.	F

Q2) A memory has a 32 MB capacity What is the size of this memory in GB?

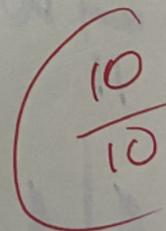
32 MB → ?? GB

2^5 MB → ?? GB

$\frac{2^5}{2^{10}}$

~~2⁻⁵ GB~~

bit
byte
kB
MB
~~GB~~



Q3) Which metric (unit of measurement) is used to describe each of the followings:

A) Resolution of a printer: dpi (dot per inch)

B) Pixel density of a screen: ppi (pixel per inch)

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 QUIZ#3 -- FALL 2024

Name: ---

ID: ---

Q1) The number that is successor to $A4F9F_{16}$

~~A4~~ ~~A50A0~~

A4FA0

Q2) Convert the following decimal number into binary showing your work:

$(179)_{10} = (10110011)_2$

179	89	1
89	44	1
44	22	0
22	11	0
11	5	1
5	2	1
2	1	0
1	0	1

5
10

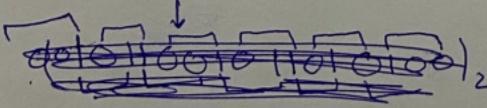
0000
0000
0001
0001
0100
0100
0101
0101
1000
1000
1001
1001
1100
1100

Q3) Convert the following Hexadecimal number into octal showing your work:

$(C3E5)_{16} = ()_8$

$C3E5_{16} \rightarrow$

$1_2 \rightarrow$



$(001100001111001001)_2$

$(76350)_8$

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QUIZ#2 -- FALL 2020

Name: _____

ID: _____

Q1) State whether each of the following statements is **TRUE** or **FALSE**.

	Statement	TRUE / FALSE
[1]	The IP Address 203.10.312.55 is a correct network address.	F
[2]	Fiber Optics transmission media uses electro-magnetic waves to transmit data.	F
[3]	The way by which devices are connected physically is called a Protocol.	F
[4]	A Hub is an intelligent switch.	F
[5]	MS Powerpoint is a spreadsheet application.	F

Q2) Write the full name of the following abbreviations (what each initial means?):

a) LAN: Local area network

b) FTP: File Transfer protocol

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QUIZ#1 ** FALL 2022
INSTRUCTOR: ENG. YOUSEF SALAH

Name: _____

ID: _____

Q1) State whether each of the following statements is TRUE or FALSE.

	Statement	TRUE / FALSE
[1]	Plotters are printers used for printing large-scale drawings.	T ✓
[2]	Embedded computers are usually special purpose computers.	T ✓
[3]	A scanner is an output device.	F ✓
[4]	Cache memory is slower than the RAM.	F ✓
[5]	HDD stores data optically.	T ✓

Q2) A memory has a 32 MB capacity. What is the size of this memory in GB?

Bit
 Byte
 MB $2^{10} \times 2^3$
 GB
 TB

$$1 \text{ MB} \rightarrow 2^{20} \text{ B}$$

$$32 \rightarrow 2^5 \text{ MB}$$

$$X = 2^{10} \times 32$$

$$= 2^{10} \times 2^5$$

$$= 2^{15} \text{ GB}$$

Handwritten notes and corrections:
 TB
 GB
 MB
 KB
 Byte
 Bit

Handwritten conversion:
 $1 \text{ GB} = 2^{10} \text{ MB}$
 $32 \times 2^{-10} = 2^{-5} \text{ GB}$
 $= 2^{-5} \text{ GB}$

$$1 \text{ MB} \rightarrow 2^{-10}$$

$$2^5 \rightarrow X$$

32 MB

$$\boxed{2^{-5} \text{ GB}}$$

Q3) Which metric is used to describe each of the followings:

- A) The clock speed of a processor: system clock
- B) The speed of a printer: dot per minute
 ↓
 PPM

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 QUIZ#4 -- FALL 2024

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Name: [REDACTED]

ID: [REDACTED]

Q1) State whether each of the following statements is TRUE or FALSE.

	Statement	TRUE / FALSE
[1]	All computer machines have a global machine language.	F
[2]	Semantic Error occurs during the run-time of the program.	T
[3]	Pseudocode is a diagrammatic representation of an algorithm.	F
[4]	The IPO chart is formed during the implementation phase of the SDLC.	F
[5]	<u>Open</u> source software is source code made available to the public, allowing anyone to view, modify, and distribute the software.	T
[6]	FORTRAN is a low-level programming language. <i>high-level (3rd GL)</i>	F
[7]	Programs written in a <u>machine language</u> are patterns of 0s and 1s.	T
[8]	The control structure that <u>repeats</u> execution of some statements is called selection control structure.	F
[9]	High level languages use symbols such as *, #, % , etc.....	T
[10]	HTML, JSP, and ASP are special programming languages used to construct Web Pages.	T

Q2) Draw a flowchart that reads 25 numbers, it will calculate and print the sum of the entered values that are divisible by 4.

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