

PALESTINE POLYTECHNIC UNIVERSITY
COLLEGE OF INFORMATION TECHNOLOGY AND COMPUTER ENGINEERING
COMPUTER AND PROGRAMMING PRINCIPLES
FIRST EXAM -- FALL 2022

Student Name: _____
Date: 25/10/2022
Time: 60 Minutes

الاسم (عربي) _____
Student Number: _____
Lecture Time: 8 Sun, Tue, Thur

منال التميمي <input type="checkbox"/>	ازدهار جوابرة <input type="checkbox"/>	يوسف صلاح <input checked="" type="checkbox"/>	عليان أبو غربية <input type="checkbox"/>	ضع ✓ بجانب المدرس
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9-10

Q1

Question	Q1(20)	Q2(15)	Q3(5)	Total Grade / 40
Mark				36

1 (20 Marks): Choose the correct answer for the following multiple choices, and fill in the table below.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
D	D	A	C	D	D	B	C	B	D	D	B	D	A	C	B	C	C	C	B

*1	Which of the followings is a <u>permanent</u> memory type?	A. RAM B. Cache C. Registers D. flash
2	2^{10} GB is equal to: $\frac{2^{10}}{2^{10}} = 1 T$	A. 1 TB. B. 1024 GB. C. 2^{20} MB. D. All of the above.
3	The memory used to store data and programs responsible for starting up the computer is:	A. ROM B. RAM C. Cache D. CD
4	The most commonly used network architecture is:	A. Peer-to-Peer. ✓ B. Bus topology C. Client-Server. D. Ring topology.

b
B
K
M
G
T
P

5	For ADSL connections, the Upstream is usually:	<p>A. 8 times the downstream</p> <p>B. Same as downstream</p> <p>C. Double the downstream</p> <p><input checked="" type="radio"/> D. 1/8 of the downstream</p>
6	The part of CPU that is responsible for controlling operations and communications:	<p>A. ALU</p> <p>B. Registers</p> <p>C. Cache</p> <p><input checked="" type="radio"/> D. CU</p>
7	One of the following printers uses spraying to print information:	<p>A. Laser printer</p> <p><input checked="" type="radio"/> B. Inkjet Printer</p> <p>C. Thermal Printer</p> <p>D. Dot Matrix printer</p>
8	A malicious program that hides within or looks like a legitimate program.	<p>A. Virus</p> <p>B. Worm</p> <p><input checked="" type="radio"/> C. Trojan horse</p> <p>D. Ransomware</p>
9	The utility software that rearranges data on disk to increase data access efficiency:	<p>A. Desktop software</p> <p><input checked="" type="radio"/> B. Disk defragmenter</p> <p>C. Device driver</p> <p>D. File compressor</p>
10	The ratio of the width of a display screen relative to its height is called:	<p>A. Resolution Ratio</p> <p>B. PPI Ratio</p> <p>C. Both B and C options</p> <p><input checked="" type="radio"/> D. Aspect Ratio</p>
11	A computer that manages a large amount of centralized data on Banks and Hospitals for thousands of users, is called:	<p>A. Embedded</p> <p>B. Personal Computer</p> <p>C. Supercomputer.</p> <p><input checked="" type="radio"/> D. Mainframe</p>
12	All of the following are advantages of cloud storage except:	<p>A. Data Sharing</p> <p><input checked="" type="radio"/> B. Privacy</p> <p>C. Security</p> <p>D. Accessibility</p>
13	The computer performance is affected by many factors like:	<p>A. RAM capacity</p> <p>B. Processor speed</p> <p>C. Cache size</p> <p><input checked="" type="radio"/> D. All of the choices</p>

	One of the following is a system software:	<input checked="" type="radio"/> A. Device driver <input type="radio"/> B. Calculator <input type="radio"/> C. Photoshop <input type="radio"/> D. MSWord
15	Running multiple programs at the same time is the responsibility of:	<input type="radio"/> A. Defragmenter <input type="radio"/> B. Device driver <input checked="" type="radio"/> C. Operating system <input type="radio"/> D. CPU
16	The amount of information that can be transmitted over a network in a given amount of time is known as:	<input type="radio"/> A. Aspect Ratio <input checked="" type="radio"/> B. Bandwidth <input type="radio"/> C. Resolution <input type="radio"/> D. ADSL
17	Which of the following is a valid IP address: <i>255</i>	<input type="radio"/> A. 37.260.10.240 ✕ <input type="radio"/> B. 37:255:10:240 ✕ <input checked="" type="radio"/> C. 37.255.10.240 ✓ <input type="radio"/> D. 37.255.10 ✕
18	Which of the following network cables has the highest transmission rate:	<input type="radio"/> A. Coaxial cable <input type="radio"/> B. Twisted Pair <input checked="" type="radio"/> C. Fiber optics <input type="radio"/> D. System bus
19	The CPU speed is measured in:	<input type="radio"/> A. Mbps <input type="radio"/> B. Giga bytes <input checked="" type="radio"/> C. GHz <input type="radio"/> D. ppm
20	A(n) _____ shrinks the size of a file:	<input type="radio"/> A. Disk defragmenter <input checked="" type="radio"/> B. File compression utility <input type="radio"/> C. Screen saver <input type="radio"/> D. Data Packet

*1

2

3

4

Q2) (15 Marks) State whether each of the following statements are True or False:

No.	Statement	True/False
1.	The output that produced from printers is called soft ^{hard} copy.	F
2.	The antivirus software should be updated continuously to be notified by latest viruses.	T
3.	A client is a computer used to host programs and data for a network and responds to server requests.	F
4.	One of the operating system functions is to provide administrating security.	T
5.	Viruses are stand-alone malicious programs that can self-replicate and propagate independently.	F
6.	Modem is a device that mainly connects two or more networks together.	F
7.	512 KB is equal to 0.5 MB ⁵¹² 1024	T
8.	Command Line Interface (CLI) is easier to use than Graphical User Interface (GUI).	F
9.	All programs that currently executing must be loaded into the ROM.	F
10.	Solid State Disk (SSD) is faster than Hard Disk Drive (HDD).	T
11.	Optical drive is the physical medium where data is stored optically.	T
12.	Internet network can be considered as a very large WAN. LAN	F
13.	Mac OS is an example of desktop operating system	T
14.	Switch is an intelligent device, since it can determine the destination of the data packets and forward them appropriately	F
15.	A Byte is the basic storage unit in memory.	F

4

Q3) (5 Marks) Fill the spaces with the most suitable terms from the choices in the table below.

MODEM	ROM	Ports	Laser Printer
ADSL	Cache	Embedded	Daisy Wheel Printer
BUS	Hackers		

1. ADSL----- A technology used for transmitting digital information on an existing phone line.
2. Laser Printer----- A printer that considered of non-impact type.
3. Cache----- A type of memory typically resides between RAM and CPU used to speed up processing.
4. BUS----- Are used to connect internal components of the computer system like the pathway between CPU and RAM.
5. Hackers----- Skilled persons who try to get unauthorized access to computers.