

PALESTINE POLYTECHNIC UNIVERSITY
COLLEGE OF INFORMATION TECHNOLOGY AND COMPUTER ENGINEERING
COMPUTER AND PROGRAMMING PRINCIPLES

FIRST EXAM -- FALL 2022

Student Name: Mohammed shateef

الاسم (عربي): محمد فتح شريف
Student Number: _____

Date: 25/10/2022

Time: 60 Minutes

Lecture Time: Tuesday 12-1

<input checked="" type="checkbox"/> محمد الجبيري <input type="checkbox"/> منال التميمي	<input type="checkbox"/> ازدهار جوابرة	<input type="checkbox"/> يوسف صلاح	<input type="checkbox"/> عليان أبو غربية المدرس
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Question	Q1(20)	Q2(15)	Q3(5)	Total Grade / 40
Mark	18	15	4	37

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
C	D	A	A	d	d	B	C	B	d	d	B	d	A	C	B	C	C	C	B

18

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

graphical span → LAN wan
 architecture →
 : topology →

5	For ADSL connections, the Upstream is usually:	<ul style="list-style-type: none"> A. 8 times the downstream B. Same as downstream C. Double the downstream <input checked="" type="radio"/> D. 1/8 of the downstream
6	The part of CPU that is responsible for controlling operations and communications:	<ul style="list-style-type: none"> A. ALU B. Registers C. Cache <input checked="" type="radio"/> D. CU
7	One of the following printers uses spraying to print information: ✕	<ul style="list-style-type: none"> A. Laser printer <input checked="" type="radio"/> B. Inkjet Printer C. Thermal Printer D. Dot Matrix printer
8	A malicious program that hides within or looks like a legitimate program.	<ul style="list-style-type: none"> A. Virus B. Worm <input checked="" type="radio"/> C. Trojan horse D. Ransomware
9	The utility software that rearranges data on disk to increase data access efficiency:	<ul style="list-style-type: none"> A. Desktop software <input checked="" type="radio"/> B. Disk defragmenter C. Device driver D. File compressor
10	The ratio of the width of a display screen relative to its height is called:	<ul style="list-style-type: none"> A. Resolution Ratio B. PPI Ratio C. Both B and C options <input checked="" type="radio"/> D. Aspect Ratio
11	A computer that manages a large amount of centralized data on Banks and Hospitals for thousands of users, is called:	<ul style="list-style-type: none"> A. Embedded B. Personal Computer C. Supercomputer. <input checked="" type="radio"/> D. Mainframe
12	All of the following are advantages of cloud storage except:	<ul style="list-style-type: none"> A. Data Sharing <input checked="" type="radio"/> B. Privacy C. Security D. Accessibility
13	The computer performance is affected by many factors like:	<ul style="list-style-type: none"> A. RAM capacity B. Processor speed C. Cache size <input checked="" type="radio"/> D. All of the choices

	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:	<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

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

No.	Statement	True/False
1.	The output that produced from printers is called soft 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.	T
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	T
6.	Modem is a device that mainly connects two or more networks together.	T
7.	512 KB is equal to 0.5 MB	F
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.	F
12	Internet network can be considered as a very large WAN.	T
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	T
15	A Byte is the basic storage unit in memory.	T

15

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. ~~ports~~ ----- Are used to connect internal components of the computer system like the pathway between CPU and RAM.
5. ~~Hacker~~ ----- Skilled persons who try to get unauthorized access to computers.

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Best Wishes 😊