

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

Student Name: Majid Tamimi الاسم (عربي): مجد غانمي التميمي  
Date: 25/10/2022 Student Number: 221113  
Time: 60 Minutes Lecture Time: لوسف صلاح / احد / ثلاثاء / خمس

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

Question	Q1(20)	Q2(15)	Q3(5)	Total Grade / 40
Mark				39

(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
B	D	B	A	B	B	A	A	C	B	B	C	D	A	C	B	C	C	C	B

1	Which of the followings is a permanent memory type?	A. RAM <input checked="" type="radio"/> B. flash C. Cache D. Registers
2	$2^{10}$ GB is equal to:	<input checked="" type="radio"/> 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:	A. RAM <input checked="" type="radio"/> B. ROM C. Cache D. CD
4	The most commonly used network architecture is:	<input checked="" type="radio"/> A. Client-Server. B. Peer-to-Peer. C. Bus topology D. Ring topology.

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

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

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

No.	Statement	True/False
1	One of the operating system functions is to provide administrating security.	T
2	Viruses are stand-alone malicious programs that can self-replicate and propagate independently	F
3	Modem is a device that mainly connects two or more networks together.	F
4	512 KB is equal to 0.5 MB	T
5	Command Line Interface (CLI) is easier to use than Graphical User Interface(GUI).	F
6	All programs that currently executing must be loaded into the ROM.	F
7	Solid State Disk (SSD) is faster than Hard Disk Drive (HDD).	T
8	Optical drive is the physical medium where data is stored optically.	T
9	The output that produced from printers is called soft copy.	F
10	The antivirus software should be updated continuously to be notified by latest viruses.	T
11	A client is a computer used to host programs and data for a network and responds to server requests.	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

$$\begin{array}{r}
 0.5 \times 2^{10} \\
 512 \\
 \hline
 2 \overline{) 1024} \\
 \underline{10} \phantom{0} \\
 24
 \end{array}$$

✓

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.

Best Wishes 😊