

The American University in Cairo

Computer Science Department

CSCI 10602&07

Dr. KHALIL	Quiz-I	Spring 2009
Last Name :		ID:
First Name:		Form - I

EXAMINATION INSTRUCTIONS

- * Do not turn this page until asked to do so.
- * Exam time is **30** minutes.
- * Put the answers on the same question sheet, do not use any additional papers, even for scratch.
- * Write your name, ID, section no. in the indicated places.
- * Read the exam instructions.
- * Read the honesty policy.
- * Sign the following statement.

Academic Integrity Policy

Cheating in Exams is a violation of the Academic Integrity policy of AUC. Whispering, talking, looking at someone else's paper, or copying from any source is considered cheating. Any one who does any of these actions or her/his answers indicates that she/he did any of them, will receive a punishment ranging from zero in this exam to failing the course. If repeated, it may lead to dismissal from AUC.

I have read the honesty policy and exam instructions and I am presenting this exam as entirely my effort.

Signature: _____

DO NOT USE THIS SECTION

Question	Points	Grade
1	20	
2	10	
Total	30	

Question 1 (20 points)

Tick only the best correct answer for each of the following:

- 1) Internet is:
 - a. A collection of computers and other hardware devices that are connected together to share hardware, software, and data. []
 - b. A system that uses satellites and a receiver to determine the exact geographic location of the receiver []
 - c. Worldwide network of computers connected together through a standard network protocol known as Transmission Control Protocol/Internet Protocol, or TCP/IP. []
 - d. A computer that provides resources to other computers in a network []
- 2) The software that controls and manages the computer resources is:
 - a. Source program []
 - b. Loader []
 - c. Web browser []
 - d. Operating system []
- 3) The part of the computer that temporary stores programs and data to be processed is:
 - a. The CPU []
 - b. ROM []
 - c. RAM []
 - d. ALU []
- 4) A web browser is:
 - a. Software that controls a user's interaction with the computer hardware []
 - b. A graphical user interface that allows users to navigate through the web []
 - c. A software that enables users to edit web pages []
 - d. A computer that provides resources to other computers in a network []
- 5) Von Neumann architecture is:
 - a. A stored-program computer []
 - b. A web browser []
 - c. An architecture for RAM []
 - d. All the above []
- 6) World Wide Web is:
 - a. A collection of computers and other hardware devices that are connected together to share hardware, software, and data. []
 - b. A system that uses satellites and a receiver to determine the exact geographic location of the receiver []
 - c. The largest and most well-known communications network, interconnecting all computer networks all over the world []
 - d. Worldwide network of servers that store collections of specially formatted files known as Web pages. []
- 7) Computer virus is:
 - a. Violation of copyright agreements []
 - b. Code disrupting the computer operations and erasing information []
 - c. A Computer theft or computer fraud []
 - d. A biological disease causing malfunctioning of the computer []
- 8) The process that allows simultaneous access to a single computer is:
 - a. Operating system []
 - b. High-level programming language []
 - c. Supercomputer []
 - d. Time sharing []
- 9) The Central Processing Unit (CPU) is composed of:
 - a. RAM & ROM []
 - b. Control Unit & Arithmetic/Logic Unit []
 - c. Main Memory & Registers []
 - d. none of the above []

- 10) A Computer Network is:
- A collection of computers and other hardware devices that are connected together to share hardware, software, and data. []
 - A system that uses satellites and a receiver to determine the exact geographic location of the receiver []
 - A software that translates a high-level language program into machine language []
 - A computer that provides resources to other computers in a network []
- 11) The Control Unit of a CPU
- Executes all arithmetic and logical operations []
 - Stores data files and programs []
 - Directs the Computer system to execute stored program instructions []
 - ALU []
- 12) The Arithmetic/Logical unit
- Executes all arithmetic and logical operations []
 - Directs the Computer system to execute stored program instructions []
 - Is a list of steps for solving a problem []
 - None of the above []
- 13) The ALU can execute logical operations, such as
- Addition, Subtraction, Multiplication, and Division. []
 - Displaying graphics on computer screen. []
 - Comparing numbers, letters, or special characters []
 - None of the above []
- 14) The main memory
- Directs the Computer system to execute stored program instructions []
 - Executes all arithmetic and logical operations []
 - Also known as RAM and it holds data and instructions for processing []
 - none of the above []
- 15) Byte:
- A group of 7 bits []
 - A group of 9 bits []
 - A group of 6 bits []
 - None of the above []
- 16) Memory and storage devices measured in number of:
- bits []
 - bytes []
 - words []
 - None of the above []
- 17) Microprocessor is
- A web browser []
 - A CPU on one silicon chip and contains millions of tiny transistors []
 - A system clock []
 - None of the above []
- 18) Size of memory and storage devices is measured as number of:
- bits []
 - bytes []
 - words []
 - None of the above []
- 19) Microprocessor speed is measured in terms of the clock speed which is expressed in:
- Gigahertz []
 - Gigabytes []
 - Gigawords []
 - None of the above []
- 20) Compiler is:
- Software that controls a user's interaction with the computer hardware []
 - A graphical user interface that allows users to navigate through the web []
 - A software that translates a high-level language program into machine language []
 - A computer that provides resources to other computers in a network []

QUESTION 2 (10 points)

Some of the following statements are completely correct while others are partially correct (only part of it that is incorrect). Mark those statements that are correct and try to correct those that are partially correct.

1. A software product is an intellectual property. It is an original work of authorship. Intellectual property has rights that can be assigned, licensed, or used as collateral. There are currently four commonly used ways in which intellectual property rights can be identified and hence protected:

(1) Registration

(2) Patent

(3) Trademark

(4) Trade Secret

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2. The WANs (Wide Area Networks) connect geographically close computers and devices, such as within a single office building, a laboratory, a warehouse, or a campus while Local Area Networks (LANs) span relatively wide geographic areas and are based on interconnected communication facilities in different parts of a country and used as a public utility.

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3. Software Piracy is the acquisition and use of legal copies of software.

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4. Because the source program in a software product is an original work of authorship, it is protected by copyright law. Copyright law protects all original works of authorship against unauthorized copying. Copyright protection means that the owner of the copyright has not the exclusive right to make, use, and/or sell the original work.

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5. The size of Computer storage is measured in terms of Kilobytes, Megabytes, and Gigabytes, where one Kilobyte = 10^3 Bytes, one Megabyte = 10^6 Bytes, and one Gigabyte = 10^9 Bytes.

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Good Luck