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

<table>
<thead>
<tr>
<th>Question</th>
<th>Points</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>10</td>
<td></td>
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<td>3</td>
<td>15</td>
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<tr>
<td>Total</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>
Question 1 (15 points)
Circle the word or phrase that completes each statement:

1. Which of the following devices stores instructions that help the computer start up?
   a. Joystick  
   b. RAM  
   c. ROM  
   d. monitor

2. Which of the following units represents the largest amount of data?
   a. kilobyte  
   b. terabyte  
   c. gigabyte  
   d. megabyte

3. Which type of software is used for creating slide show?
   a. Web design software  
   b. presentation software  
   c. word processing software  
   d. spreadsheet software

4. The Internet is open to ______________
   a. members  
   b. government agencies  
   c. university researchers  
   d. anyone who can access it

5. The Internet acts as a ______________ for services such as World Wide Web and e-mail.
   a. provider  
   b. host  
   c. carrier  
   d. server

6. The ______________ standard promises to provide enough characters to cover all the world’s languages
   a. ASCII  
   b. RAM  
   c. Unicode  
   d. EBCDIC

7. You can connect an electronic instrument to your computer via the ____________ port.
   a. USB  
   b. PS2  
   c. HDX  
   d. MIDI

8. A ______________ is an example of a magnetic storage device.
   a. Flash memory drive  
   b. CD-ROM drive  
   c. hard disk drive  
   d. optical drive

9. To remove a program from your computer, you can ______________ it.
   a. uninstall  
   b. delete  
   c. store  
   d. transfer

10. A computer program is a collection of ______________ that are carried out by the computer’s CPU.
    a. instructions  
    b. loops  
    c. steps  
    d. algorithms

11. The 1s and 0s that CPUs can understand is called its ______________.
    a. syntax  
    b. interrupt  
    c. interpreter  
    d. machine language

12. ______________ programming languages use familiar words rather than the detailed strings of 0s and 1s that make up machine instructions.
    a. machine  
    b. assembly  
    c. high-level  
    d. All

13. A ______________ is someone who uses a computer and a network or Internet connection to intrude into another computer or system to perform illegal act.
    a. hacker  
    b. programmer  
    c. terrorist  
    d. spammer

14. The ______________ detects syntax errors in a source program written in a high-level language.
    a. editor  
    b. compiler  
    c. assembler  
    d. processor

15. ______________ is a code attached to another program that spreads through a computer’s disk memory, disrupting the computer or erasing information.
    a. interrupt  
    b. spam  
    c. computer virus  
    d. algorithm

16. ______________ is the violation of copyright agreements by illegally copying software for use in another computer.
    a. cheating  
    b. spam  
    c. software piracy  
    d. hacking
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

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

3. 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.

4. 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.

QUESTION 3 (15 points)
1. Convert the following to the base indicated:

   (54)$_{10}$ = ( )$_2$
   (111000101)$_2$ = ( )$_{10}$
   (100000000)$_2$ = ( )$_{10}$
   (111111111)$_2$ = ( )$_{10}$
   (197)$_{10}$ = ( )$_2$

2. Add (55)$_{10}$ to (33)$_{10}$ in binary format.