※此為試題卷，請將答案填寫在答案卷內，未寫於答案卷內者，不予計分。

※不可使用計算機

I.　選擇下列各項符合的敘述 (45 Points)

a. analog
b. bps
c. bus network
d. client/server
e. coaxial cable
f. digital
g. Ethernet
h. extranet
i. fiber-optic cable
j. firewall
k. GPS
l. intranet
m. LAN

n. modem
o. network
p. NIC
q. peer-to-peer
r. ring network
s. star network
t. TCP/IP
u. topology
v. twisted-pair wire
w. virus
x. VPN
y. WAN
z. WAP

1. ____ the physical arrangement of a network
2. ____ a network in which all communication passes through one host computer
3. ____ a variety of local area network in which all devices work on the same level
4. ____ a network that covers a large geographic area
5. ____ a network created for employees that uses the protocols of the Internet and the Web
6. ____ a communication medium in which data are represented by light pulses
7. ____ a type of signal that uses continuous waves to represent messages
8. ____ the type of signal generated by computers
9. ____ a measure of transmission speed
10. ____ a device used to connect a PC to a local area network
11. ____ a protocol frequently used in local area networks
12. ____ a protocol used on the Internet
13. ____ a protocol used to connect mobile devices to a network
14. ____ a program designed to interrupt or damage a computer system
15. ____ a combination of hardware and software designed to prevent unauthorized access

背面有試題

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II. 選擇：(30 Points)

1. Which is true about the binary numbering system?

    a. It uses only the symbols 0 and 1.

    b. Computers perform all computations using it.

    c. It can also be called the base 2 numbering system.

    d. The string 0110100 could be used to represent a number in the binary system.

    e. (All of the above are true.)

2. Which of the following is the smallest unit of size?

    a. byte

    b. bit

    c. megabyte

    d. gigabyte

    e. exabyte

3. ___ memory is a special group of fast memory chips used to increase processing speed.

    a. Cache

    b. Reserve

    c. Random Access

    d. ROM

    e. Bus

4. A principal advantage of magnetic disk over magnetic tape is its:

    a. ability to perform sequential processing.

    b. direct-access capability.

    c. portability.

    d. low media cost.

    e. (All of the above.)

5. Many voice recognition systems require the user to train the system by:

    a. typing a specified document on the keyboard.

    b. installing software that replicates the accent closest to that of the user.

    c. recording while not speaking so the computer can learn the sound of background noises in the user's environment.

    d. entering the phonemes the user speaks most often.

    e. reading a prescribed set of words into a microphone.

6. The physical size of a monitor's screen is measured:

    a. diagonally across the screen.

    b. by adding the width and the height of the screen.

    c. by multiplying the width by the height of the screen.

    d. as the circumference of the screen.

    e. (None of the above.)

7. The main collection of programs that manages the activities of the computer system is known as the:

    a. master operator.

    b. operating system.

    c. master editor.

    d. COBOL compiler.

    e. software suite.

8. If a program, such as a word processor, performs an illegal activity, the operating system usually:

    a. reboots the computer.

    b. notifies the authorities.

    c. disconnects the computer from the network.

    d. closes the application.

    e. (It does all of the above.)

9. When selecting an ISP for access via a cable modem it is important to get information about the:

    a. average number of users per modem.

    b. distance from your location to the nearest telephone switching station.

    c. number of people that will share the cable with you.

    d. estimated amount of down-time due to rain storms.

    e. (You should ask about all of the above.)

10. CAD and CAM collectively refer to the use of computers in:

    a. decision support.

    b. office automation.

    c. design and manufacturing.

    d. document processing.

    e. artificial intelligence.

11. A steering committee for a systems development project normally is involved with:

    a. determining the specific hardware and software requirements.

    b. programming the applications.

    c. interviewing users to determine their needs.

    d. the overall direction of the project.

背面有試題

    e. (All of the above.)

12. Collectively, the phases for planning, building, and using an information system are known as:

    a. the critical path method.

    b. experience curves.

    c. critical success factors.

    d. the systems development life cycle.

    e. the project building blocks.

13. Which of the following is related to object-oriented programming?

    a. inheritance

    b. variables

    c. methods

    d. encapsulation

    e. (All of the above are related to object-oriented programming.)

14. The purpose of dummy output statements in a program is to:

    a. provide internal documentation that makes a program easier to understand and maintain.

    b. show program activity during the debugging phase.

    c. record the start and stop time when the program is run.

    d. send instructions to the computer operator.

    e. print a sample document so that the paper can be properly aligned.

15. Which of the following is an example of a server-oriented DBMS?

    a. Access

    b. Microsoft Windows

    c. Oracle

    d. Paradox

    e. COBOL

IV. 問答：(25 Points)

    1.   **What are the three components of disk access time? (10 Points)**

    2.   **What is a machine cycle? (15 points)**