

本試題是否可以使用計算機：可使用，不可使用（請命題老師勾選）

一、選擇題(每題 4 分，共 60 分)

1. The portion of an operating system that is loaded into RAM at system startup is called (a) a starter. (b) the kernel. (c) an application. (d) MS-DOS.
2. When it is not necessary to supply the Windows source document for an object to be displayed in a Windows client application, the object is (a) linked. (b) the original. (c) embedded. (d) projected.
3. During the PC power up sequence, the operating system is loaded from disk storage to (a) ROM. (b) the external memory. (c) RAM. (d) the internal matrix.
4. USB stands for (a) United Serial Board. (b) Unchained Sound Board. (c) Universal Serial Bus. (d) Universal Search Board.
5. The program register contains (a) the current program's entire source code. (b) the program's logic operands. (c) the RAM address of the instruction to be executed next. (d) the list of programs stored in the computer.
6. A single digital videodisk can hold up to (a) 10 gigabytes of data. (b) 1 gigabyte of data. (c) 10 gigabits of data. (d) 640 gigabytes of data.
7. Before a magnetic disk can be used for data storage, it must first be (a) fragmented. (b) allocated. (c) formatted. (d) addressed.
8. A picture element on a monitor is also called (a) an icon. (b) a picture. (c) a computer drawing. (d) a pixel.
9. Which of the following uses a generic vocabulary database? (a) speech recognition systems (b) automated listening devices (c) assistant systems (d) voice-response system
10. The type of computer network that is designed for a city is referred to as (a) a MAN. (b) a TAN. (c) a LAN. (d) a WAN.
11. Which of the following transmission media provides the greatest flexibility in the location of nodes in a network? (a) multiplexors (b) coaxial cable (c) fiber optic cable (d) wireless transceivers
12. Rules established to govern the way data are transmitted in a computer network are called (a) connectivity rules. (b) functions. (c) communications protocols. (d) dedicated transmission laws.
13. Which does the URL need to access a document? (a) path name (b) host computer (c) retrieval method (d) all the above.
14. The number of bits of MAC address is (a) 16 (b) 32 (c) 48 (d) 64.
15. Which IP address class has more hosts per network? (a) A (b) B (c) C (d) D

二、簡答題(共 20 分)

說明：以下 3 題所使用的程式語言為 C/C++

1. If integers $x=2$, $y=3$, and $z=1$, what is the value of the following expression? (4%)
 $z-(x+z)\%2+y$

(背面仍有題目,請繼續作答)

編號： 16 系所：交通管理科學系學士班

科目：計算機概論

本試題是否可以使用計算機： 可使用， 不可使用（請命題老師勾選）

2. If originally $x=4$, $y=0$, and $z=2$, what are the value of y and z after executing the following code? (8%)

```
if (x || y || z)
    y=1;
else
    z=3;
```

3. If originally $x=1$ and $y=3$ what are the value of x and y after executing the following code? (8%)

```
switch (x )
{
    case 0 : x=2;
            y=3;
            break;
    case 1: x=4;
            break;
    default : y=3;
            x=1;
}
```

三、問答題 (每題 10 分，共 20 分)

1. Describe the relationship between a client computer and a server computer in a client/server network.
2. What is the rationale for creating the Unicode encoding system when we already have well-established systems like ASCII?