

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 80 分)

1. The process during which a link is established between the source and destination is called (a) handshaking (b) waving (c) networking (d)winking.
2. What enables incompatible computer networks the ability to be linked together? (a) an H/S converter (b) a bridge (c) a router (d) a gateway.
3. Identify the class of IP address 140.116.97.1 (a) Class A (b) Class B (c) Class C (d) Class D.
4. As the data packet moves from the lower to the upper layers in computer networks, headers are (a) added (b) removed (c) rearranged (d) modified.
5. An IPv6 address consists of (a) 8 (b) 16 (c) 32 (d) 128 bits.
6. Unicode is a 16-bit encoding system being developed which can represent up to (a) 32,536 (b) 65,536 (c) 128,436 (d) 256,436 characters.
7. Before execution or processing, programs and data must be transferred to (a) the control unit (b) ROM (c) RAM (d) secondary storage.
8. Data on disks are stored in concentric circles called (a) rounders (b) tracks (c) bits (d) sectors.
9. A virus cannot (a) be created by someone without computer experience (b) erase programs (c) activate computer components (d) spread from one computer network to another.
10. The capacity of a single CD-ROM disk is usually about (a) 200 MB (b) 680 MB (c) 10 GB (d) 100 GB.
11. A picture element on a monitor is also called (a) an icon (b) a picture (c) a computer drawing (d) a pixel.
12. AGP technology achieves better performance than graphics adapter cards by (a) using larger amounts of video RAM (b) using more efficient cables to connect to the monitor (c) using the PC system's RAM (d) operating at a higher voltage.
13. When you click on the hypertext link while searching for information on the Web, you are automatically transferred to a specified (a) HTML (b) FAQ (c) URL (d) FTP.
14. Post Office Protocol refers to (a) the e-mail service that you subscribe to (b) the way your e-mail manages your files (c) the manner in which your e-mail is sent (d) the way your e-mail client software gets your e-mail from a server.
15. What is the Internet application called that will enable you to choose what television program or movie you want to watch and when you want to watch it? (a) remote MTV (b) electronic blockbuster (c) home-based video (d) video-on-demand.
16. Which computer application is least likely to be batch processing oriented? (a) producing electricity utility invoices (b) producing bank balance statements (c) accounts payable processing in a retail clothing store (d) hotel reservations system.
17. Programs written by IT specialists must be translated into what language before they can be executed? (a) application generator (b) machine language (c) assembler language (d) BASIC language.

(背面仍有題目,請繼續作答)

編號： 18 系所：交通管理科學系學士班

科目：計算機概論

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18. A program is as follows:

```
x=0;
for (int i=1; i<=10; i=i+2)
    x=x+i;
```

After finishing the program, the value of  $x$  is (a) 5 (b) 25 (c) 30 (d) 55.

19. A program is as follows:

```
x=12;
i=0;
while (x>7)
{
    i=i+1;
    x=x-2;
}
```

After finishing the program, the value of  $i$  is (a) 3 (b) 6 (c) 8 (d) 10.

20. In a 4GL, the user specifies (a) what to do and how to do it (b) how to do it but not what to do  
(c) what to do but not how to do it (d) how to do it and who should do it.

二、問答題（每題 10 分，共 20 分）

1. 面對電腦病毒的威脅，請說明應變之措施。
2. 請說明作業系統(operating system)之功能，並比較 windows 和 Unix (或 Linux)之異同。