

Part I 選擇題 [66%]: 不得使用計算機

Please identify the correct answers. There is only one correct answer among the four choices.

1. _____ is software specifically designed to help you create Web pages.
 - a. Paint/image editing software
 - b. E-mail software
 - c. Word processing software
 - d. Web page authoring software
2. Eight bits grouped together as a unit are called a _____.
 - a. binary system
 - b. byte
 - c. binary digit
 - d. code
3. A(n) _____ mouse uses devices that emit and sense light to detect the mouse's movement.
 - a. mechanical mouse
 - b. wheel mouse
 - c. cordless mouse
 - d. optical mouse
4. Many organizations use a(n) _____ to make information accessible to employees and facilitate working in groups.
 - a. intranet
 - b. extranet
 - c. Internet
 - d. firewall
5. The entire collection of Internet newsgroups is called _____, which contains thousands of newsgroups on a multitude of topics.
 - a. ARPANET
 - b. NSFnet
 - c. Dragnet
 - d. Usenet
6. Manufacturers state video memory in _____.
 - a. megabytes
 - b. kilobytes
 - c. gigabytes
 - d. terabytes
7. The process of transferring data, instructions, and information into memory from a storage medium is called _____.
 - a. capacity
 - b. reading
 - c. access time
 - d. writing
8. Someone who tries to access a computer or network illegally is called a(n) _____.
 - a. analyst
 - b. virus
 - c. cracker
 - d. network agent
9. The primary input device on most PDAs is _____.
 - a. a full-sized keyboard
 - b. desktop input
 - c. a basic stylus
 - d. voice input
10. Sun Microsystems' _____ is a network operating system designed specifically for e-commerce applications.
 - a. Linux
 - b. UNIX
 - c. NetWare
 - d. Solaris
11. A(n) _____ uses a separate transistor for each liquid crystal cell and can display high-quality color that is viewable from all angles.
 - a. passive-matrix display
 - b. active-matrix display
 - c. dual-scan display
 - d. CRT display
12. A macro is a _____.
 - a. document that contains the formatting necessary for a specific document type
 - b. sequence of keystrokes and instructions that a user records and saves
 - c. small image on the screen that represents a program or document
 - d. collection of drawings, diagrams, and photographs that can be inserted into a document
13. A SCSI port is _____.
 - a. similar to a USB port in that it can connect multiple types of devices that require faster data transmission speeds
 - b. a special high-speed parallel port that allows users to attach peripherals such as disk drives and printers
 - c. a special type of serial port that connects the system unit to a musical instrument
 - d. an alternative to IrDA that uses radio waves to transmit data between two devices

(背面仍有題目,請繼續作答)

編號： 62

系所：工業與資訊管理學系學士班

科目：計算機概論

14. A _____ is a device that provides a central point for cables in a network.
- hub
 - packet
 - node
 - router
15. When compared with a file processing system, a database offers all of the following *except* _____.
- reduced data redundancy
 - easier access and shared data
 - reduced development time
 - less required memory, storage, and processing power
16. In sequence, the program development cycle consists of six steps: _____.
- validate design, test solution, design solution, implement design, analyze requirements, and document solution
 - implement design, document solution, test solution, validate design, design solution, and analyze requirements
 - analyze requirements, design solution, validate design, implement design, test solution, and document solution
17. The series of instructions that tells a computer what to do and how to do it is called a _____.
- command
 - program
 - user response
 - dialog box
18. A _____ uses logs and/or backups to restore a database when it becomes damaged or destroyed.
- primary key
 - data model
 - relational database
 - recovery utility
19. The core of an operating system that assigns the computer's resources is called a _____.
- kernel
 - boot
 - platform
 - BIOS
20. A real-time Internet communications service that allows you to exchange messages or files with online contacts is called _____.
- a chat room
 - instant messaging
 - e-mail
 - a newsgroup
21. The LAN protocol defined for Microsoft Windows NT-based networks is:
- TCP/IP
 - Apple Talk
 - IPX/SPX
 - NetBEUI
22. _____ is the process of converting readable data into unreadable characters to prevent unauthorized access.
- Compression
 - Encryption
 - Encoding
 - Decryption

Part II 程式問答題 [34%]: 不得使用計算機

1. [5%] There is a macro in C language defined as below.

```
#define formula(x,y,z) x*y-z
```

What's the value of formula(3+5, 8-3, 2+6) after macro expansion?

2. [5%] Write down the output of the following code.

```
#include <stdio.h>
void main()
{
    int a[]={2,3,4,5,6};
    printf("%d\n", *(a+a[1]));
}
```

3. [5%] Write down the output of the following code.

```
void main()
{   printf("%d\n",func(3,4)); }
func(int x, int y)
{   if (y==0) return (1);
    else return (x*func(x,y-1)); }
```

4. [6%] Write down the output of the following code.

```
void main()
{   int a=6, b=3;
    a=a*b; b=b/a; a*=a*b;
    printf("%d %d\n",a,b); }
```

5. [13%] Write a complete C/C++ program to ask the user to input 2 integers and then write out the greatest common divider of those two numbers.