台灣聯合大學系統九十二學年度轉學生入學試題卷

類組: A-4

年級:2 節次:2 科目:計算機概論

共 〕 頁第/ 頁

- 一、(36%) 單選題,每題三分,答錯倒扣兩分
- 1. How does the math coprocessor outperform the ALU?
- a. Manipulates more numbers per millisecond
- b. Utilizes floating-point arithmetic
- c. Bypasses RAM
- d. Eliminates text processing
- e. None of the above
- 2. What is the term for the memory chips that are similar to random access memory, but that run much faster?
- a. ROM
- b. Cache
- c. RAM
- d. Disk
- e. Coprocessor
- 3. During execution of a program, both the program and the data it is analyzing are held in which portion of the computer?
- a. ROM
- b. RAM
- c. Control unit
- d. Arithmetic logic unit
- e. Register
- 4. A computer's initial start-up instructions are in which portion of the computer?
- a. RAM
- b. Control unit
- c. Disk storage
- d. ROM
- e. None of the above
- 5. What is the name of the signal that the keyboard sends to the computer when a key is pressed?
- a. Key code
- b. Keyboard controller
- c. Interrupt request
- d. Numeric signal
- e. None of the above
- 6. What does an expansion slot do?
- a. Gives built-in devices access to the computer's bus via controller cards
- b. Provides I/O ports for external devices
- c. Reports the amount of memory available
- d. Shows the number of registers present
- e. All of the above
- 7. A disk controller
- a. Controls hard disk drives and floppy disk drives
- b. Acts as an interface between the disk and CPU
- c. Is a factor in determining how quickly a drive can read and write data
- d. All of the above
- e. Both a and b



注:背面有試題

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共一頁第三頁

- 8. Which of the following components are commonly included in a logical format?
- a. Boot record
- b. File-allocation table
- c. Root directory
- d. Data area
- e. All of the above
- 9. What is the purpose of the file-allocation table?
- a. It determines whether the disk can run the operation system correctly
- b. It creates a log that lists each file location and the status of each sector
- c. It is a tool for organizing files on disk
- d. It stores data and program files
- e. All of the above
- 10. Distributed computing can be done on a LAN if the arrangement is
- Client/server
- b. Peer-to-peer
- c. File server
- d. Parallel to serial
- e. Bus
- 11. Which network protocol is based on the star topology and uses coaxial cable or twisted-pair wire?
- a. Modal Net
- b. Ethernet
- c. Token Ring
- d. ARCnet
- e. Fast Ethernet
- 12. The tendency to periodically check the OS to see whether other programs need the CPU is called
- a. Multiprocessing
- b. Pre-emptive multitasking
- c. Graphical processing
- d. Object processing
- e. Cooperative multitasking



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共分頁第分頁

二、(14%) 請將下述程式之輸出結果寫出來,假設所鍵入之 unsigned integer 是 2127

```
#include <stdio.h>
 1
     unsigned reverseBits( unsigned );
     void displaySits ( unsigned );
     int main()
 ¢
        unsigned a:
10
11
        printf( "Enter an unsigned integer: " );
13
        scanf( "%u", &a );
1.3
        printf( "\nBefore bits are reversed:\n" );
14
        displayBits( a );
13
        a = reverseBits( a );
16
        printf( "\nAfter bits are reversed:\n" );
17
        displayBits( a );
13
3.3
        return 0;
20
21
22
    unsigned reverseBits ( unsigned value )
23
24
        unsigned mask = 1, temp = 0;
25
       int i;
26
27
        for ( i = 0; i <= 15; i++ ) (
           temp <<= 1;
temp = ( value & mark );
38
           value >>= 1;
3,
32
33
        return temp;
3.4
35
34
    void displayBits ( unsigned value )
37
33
       unsigned c, displayMask = 1 << 15;
30
       printf( "%7u = ", value );
40
41
42
       for ( c = 1; c <= 15; c++ ) (
43
           value & displayMask ? putchar( '1' ) ; putchar( '0' );
          value <<= 1;
33
           if (c%8==0)
45
47
              putchar( ' ');
48
49
       putchar( '\n' );
50
31
```

= \((10\%)\) Describe, how an array could be used to implement a queue in a high-level language.

□ (10%) Describe what is data mining and its applications.

五、(15%)What problem arises as the lengths of the time slices in a time-sharing system are made shorter and shorter What about as they become longer and longer?

六·(15%)In what way could TCP be considered a better protocol for implementing the

改成: What is TCP and its applications?