

銘傳大學 97 學年度研究所碩士班招生考試

管理研究所碩士班(甲組)、財務金融學系碩士班、傳播管理研究所碩士班(丙組)
資訊管理學系碩士班、資訊工程學系碩士班與資訊傳播工程學系碩士班
電子工程學系碩士班、電腦與通訊工程學系碩士班

計算機概論試題(第三節)

(第 1 頁共 2 頁)(限用答案本作答)

☐ 可使用計算機 ☒ 不可使用計算機

一、選擇題(60%)：每題答對得兩分，答錯或空白得零分

1. C++ is a(n) ___ language. *a. procedural b. functional c. declarative d. object-oriented*
2. A program becomes a *a. job b. process c. deadlock d. partition* when it is selected by the operating system and brought to the hold state.
3. What is 1000001101 in hexadecimal? *a. 20D b. 30C c. 834 d. 837*
4. A step-by-step solution to a problem is called ___. *a. hardware b. an operating system c. a computer language d. an algorithm e. ASCII*
5. Which of the following is a secondary storage device? *a. RAM b. cache c. floppy-disk d. printer e. monitor*
6. A gateway operates at ___ of the OSI model. *a. first layer b. first two layers c. first three layers d. all layers*
7. Web site addresses are called ___. *a. HTML b. home pages c. URLs d. hyperlinks e. TCP/IP*
8. In extended ASCII, each symbol is *a. 7 b. 8 c. 9 d. 10* bits.
9. What is the domain name in the email address *kayla@pit.arc.nasa.gov*? *a. kayla b. pit.arc.nasa.gov c. kayla@pit.arc.nasa.gov d. nasa.gov e. gov*
10. The IP address is currently ___ bits in length. *a. 4 b. 8 c. 16 d. 32 e. 64*
11. How many symbols can be represented by a bit pattern with 10 bits? *a. 128 b. 256 c. 512 d. 1024*
12. Which topology uses a hub or switch? *a. bus b. ring c. star d. all of the above e. none of the above*
13. *a. FTP b. SMTP c. TELNET d. HTTP e. SSL* is a protocol for file transfer.
14. What layer of the OSI model organizes bits into logical data units called frames? *a. physical b. data-link c. network d. transport*
15. What is the result of *x99 OR (NOT x00)* *a. 01100110 b. 11111111 c. 10011001 d. 10101010* (*x* denotes hexadecimal)
16. *a. An operating system b. Hardware c. A queue d. An application program e. An anti-viruses program* supervises and manages the activity of each component in a computer system.
17. Multiprogramming requires a ___ operating system. *a. batch b. time-sharing c. parallel d. distributed e. network*
18. The only language understood by computer hardware is a ___ language. *a. C/C++ b. symbolic c. high-level d. natural e. machine*
19. ___ is a basic algorithm that arranges data according to their values. *a. Inquiry b. Sorting c. Searching d. Recursion e. Summation*
20. A ___ is a connecting device that segments traffic. *a. repeater b. bridge c. router d. gateway*
21. In *a. sign-and-magnitude b. one's complement c. two's complement d. a and b number representation*, there are two representations for 0.
22. If the memory address space is 16MB and the word size is 16 bits, then *a. 8 b. 16 c. 24 d. 32* bits are needed to access each word.
23. A ___ is a connecting device that segments traffic. *a. repeater b. bridge c. router d. gateway e. NIC*
24. According to the von Neumann model, what are stored in memory? *a. only data b. only program c. data and program d. none of the above.*
25. In von Neumann model, the *a. ALU b. I/O c. memory d. control unit* is the subsystem that performs

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calculations and logical operations.

26. In ____, only one program can reside in memory for execution. *a.* mono-programming *b.* multiprogramming *c.* partitioning *d.* paging *e.* none of the above
27. A standard data type in the C/C++ language is not including *a.* int *b.* char *c.* float *d.* array *e.* both float and array
28. *a.* FTP *b.* SMTP *c.* TELNET *d.* HTTP is a protocol for mail services.
29. Random Access Memory (RAM) is a kind of ____ storage. *a.* permanent *b.* smart *c.* temporary *d.* expansion *e.* cache memory
30. ____ search is usually applied to an ordered list. *a.* Sequential *b.* Binary *c.* Bubble *d.* Insertion *e.* Selection

二、簡答題(40%)：答錯或空白得零分

1. Convert the following five base ten (decimal) representations to their equivalent two's complement forms using patterns of 8 bits: (10%)

a. 25 *b.* -70 *c.* -1 *d.* 0 *e.* 1

2. What's the different between TCP and UDP? (10%)

3. Identify the body of the following loop structure and count the number of times it will be executed. (5%)
What happens if the test is changed to **while** (Count not 6)? (5%)

```
Count = 1;
while (Count not 7) do {
    Print the value assigned to Counter;
    Count = Count + 3;
}
```

4. What are the five basic components that make up a computer? (10%)

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試題完