

# 國立中央大學九十一學年度轉學生入學試題卷

資訊工程學系 二年級 科目：計算機概論 共 之頁 第 / 頁

1. (5%) 請說明 BIOS 晶片的功能及特性。

2. (12%) CPU 內部較重要的暫存器有哪些？其主要功能為何？

3. (5%) Can a correct Time class definition include both of the following constructors? If not, explain why not.

Time (int h=0, int m=0, int s=0);

Time 0;

4. (15%) 回答下述有關 C 或 C++ 之問題，答錯每題倒扣三分。

(1) (True/False) A derived class is often called a subclass because it represents a subset of its base class.

(2) (True/False) A pointer that is declared to be void can not be dereferenced. )

(3) (True/False) A const member function may be overloaded with a non-const version.

(4) (True/False) Not providing an overloaded assignment operator and a copy constructor for a class when objects of that class contain pointers to dynamically allocated storage is a logic error.

(5) (True/False) The default case is required in the switch selection structure.

5. (13%) 主機板上之晶片組 (Chipset) 的功能為何？包含哪兩顆晶片？其功能為何？

6. (15%) 請分析 Linux 和 Windows 此兩種作業系統的優缺點。

7. (10%) 請將下列程式之輸出結果寫出（用框框將你自己輸入之字串框起來以便區隔出螢幕所顯示之輸出）。

```
void mystery1 (char *, const char *);  
int main ()  
{  
    char string1[80], string2[80];  
    printf("Enter two strings: ");  
    scanf("%s%s", string1, string2);  
    mystery1(string1, string2);  
    printf ("%s", string1);  
    return 0;  
}  
  
void mystery1( char *s1, const char *s2)  
{  
    while (*s1 != '\0')  
        ++s1;  
    for ( ; *s1 = *s2; s1++, s2++)  
        ;  
}
```

參考用

注意：背面有試題

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資訊工程學系 二年級

科目：計算機概論

共 之 頁 第 2 頁

8. (25%) Find the error(s) in each of the following and explain how to correct it:

(a) class Example {

public:

Example ( int y = 10 ) {data = y; }

int getIncrementedData ( ) const { return ++data; }

static int getCount()

{

cout << "Data is " << data << endl;

return count;

}

private:

int data;

static int count;

};

(b) char \*string;

string = new char[20];

free ( string );

參考用