

系所組別： 交通管理科學系丙組

考試科目： 計算機概論

考試日期： 0308 節次： 3

※ 考生請注意：本試題 可 不可 使用計算機

1. Find the class of the following IP addresses.
 - (a) 208.34.54.12 (5%)
 - (b) 129.14.6.8. (5%)
2. Find the network ID and the host ID of the following IP addresses.
 - (a) 114.34.2.8 (5%)
 - (b) 132.56.8.6 (5%)
3. Explain the difference between RAM, ROM, and PROM and give an example of how each is used in a computer system. (20%)
4. List and briefly describe the ways to connect a PC to the Internet. (15%)
5. Describe the principle of digital signature for network security. (15%)
6. Find the output after executing the following C/C++ code? (15%)

```
#include <iostream>
using namespace std;
int myfunction(int x, int& y);
int main ()
{
    int x=2, y=4, z=6;
    z=myfunction(x, y);
    cout << "x =" << x << endl;
    cout<< " y=" << y << endl;
    cout << " z=" << z << endl;
    return 0;
}
```

```
int myfunction(int x, int& y)
{
    x=x+y;
    y=x-y;
    return x*y;
}
```

7. What will be printed from the following C/C++ code? (15%)

```
x=12;
while (x>7)
{
    cout << x << endl;
    x -= 2;
}
```