明 明志科技大學 101 學年度研究所碩士班一般考試暨在職專班招生命題用紙

所別： 工業工程與管理研究所 組別： 不分組 科目：計算機概論
注意：☑不准□一般計算器□工程用計算器，考試時間總計：100 分鐘。試題共 1 頁，第 1 頁

一、(35%) Please explain following terms:

1. NP-Complete
2. End user computing
3. Hamming code
4. Primary key
5. Cloud Computing
6. Object-oriented Programming
7. 固態硬碟 (solid state drive)

二、(12%) What is the difference between Stack and Queue in Data Structure?(Give some examples to explain them)

三、(12%) What is routing in Computer Network? What are the static routing and dynamic routing?

四、(14%) What is Prototyping in System Analysis and Design? Describe its advantages and disadvantages.

五、(12%) What is Database normalization? What are First Normal Form and Second Normal Form?

六、(15%) 請根據下列程式，當程式執行完畢後，寫出程式執行的結果？

```java
public class t1
{
  public static void main( String args[])
  {
   int[] d={ 1,4,3,5,4,2,4,8,7,3 };
   int i,j,t;
   for(i=0;i<d.length-1;i++)
     for(j=0;j<d.length-1-i;j++)
       if(d[j] < d[j+1])
        { t = d[j];
           d[j] =d[j+1];
           d[j+1]=t;
        }
   for(i=0;i<d.length;i++)    System.out.print(" "+d[i]);
  }
}
```