

所別：網路學習科技研究所碩士班 科目：計算機概論

1. Explain the following concepts briefly
- A. (5%) WiMax
 - B. (5%) Web 2.0
 - C. (5%) Open-source development
 - D. (5%) Markup languages
 - E. (5%) Show how the array below appears in a machine's memory when stored in row major order and in column order.

N	C	U	N
L	T	I	S
G	O	O	D

2. (25%) Design a procedure to print a linked list in reverse order using a stack.
3. (25%) What is the result of compiling and running the following program? Explain it?
- (a) Prints: 3, 4, 8
 - (b) Prints: 7, 2, 6
 - (c) Compile-time error
 - (d) Run-time error
 - (e) None of the above

```
class NLT9601 {
    public static void main(String[] args) {
        int[][] a1 = {{1, 2, 3},{4, 5, 6},{7, 8, 9, 10}};
        System.out.print(a1[2][0]+" "+a1[0][1]+" "+a1[1][3]);
    }
}
```

4. (25%) What is the result of compiling and running the following program? Explain it?
- (a) Prints: AbAbAb
 - (b) Prints: ABabab
 - (c) Prints: ABabAb
 - (d) Prints: ABAbAb
 - (e) Prints: Ababab
 - (f) Compile-time error
 - (g) Run-time error
 - (h) None of the above

```
class NLT9602 {
    static void m1(String s1) {
        s1 = s1.toUpperCase(); System.out.print(s1);
    }
    static void m2(String s1) {
        s1.toLowerCase(); System.out.print(s1);
    }
    public static void main(String[] s) {
        String s1 = "Ab";
        m1(s1); m2(s1);
        System.out.print(s1);
    }
}
```