A. 名詞解釋 (30%)

[1] Mesh topology
[2] TCP/IP
[3] Deadlock
[4] Basic path testing
[5] Binary tree
[6] DNS

B. Write an algorithm to find the largest integer among the first 1000 integers. (10%)

C. How to measure **Software quality**? Please identify the measuring indicators. (15%)

D. Using the insertion sort algorithm, manually sort the following list and show your work in each pass: (15%)

```
7 23 31 40 56 78 9 2
```

E. Find the root of each of the following binary trees: (10%)

[1] Tree with postorder traversal: FCBDG

[2] Tree with preorder traversal: IBCDFEN

F. Two integers A and B are stored in two's complement format. Show how B is subtracted from A?

\[ A = (00011000)_2 \quad B = (11101111)_2 \] (10%)

G. Convert the decimal number 0.634 to octal using a maximum of four digits. (10%)