1. Describe the functions of the TCP in data networking. (10%)

2. What is meant when a computer is described as a "64-bit, 500-MIPS processor with 1 GB of RAM"? (10%)

3. What is network address translation (NAT)? How can NAT help in address shortage in IPv4? (15%)

4. What is CISC? What is RISC? Please compare the two different designs between CISC and RISC. (15%)

5. Describe major differences between Windows OS and Unix OS. (15%)

6. Given the following declarations and definitions (15%)
```
int size=1000;
int table1[size]
int table2[size][size]
int table3[size][size][size];
```
How many memory do we need to store the three arrays?

7. Write a C/C++ code segment that can compute the following expression: (20%)
$1x2 + 2x3 + 3x4 + 4x5 + ...+ Nx(N+1)$