所別：網路學習科技研究所碩士班 科目：作業系統

1. Redundant Array of Independent Disks(RAID),What is the advantages of RAID ? Please describe its advantages with respect to Availability, Capacity and Performance. (15%)

2. TCP/IP protocol plays an important role in the client-server model. Please describe its function and draw TCP/IP layers based on the concept of the OSI architecture (15%)

3. Please describe the advantages and disadvantage of Microsoft window and Unix-like OS with the following three respects, 1) maintenance and management, 2) software and hardware compatibility, 3) executing performance. (15%)

4. As for developing the client-server application, Please the differences between Microsoft window and Unix-like OS with respect to management, performance and multimedia (15%)

5. Please describe the differences between Microsoft .NET Framework and Sun Java architecture with the following four respects, 1) programming maintenance and management, 2) software and hardware compatibility, 3) executing performance. 4) object code portability   (20%)

6. (20%)
   - ☐ preemptive and nonpreemptive
   - ☐ process and thread
   - ☐ Scheduling mechanisms :Short Job First ,Round-Robin and Deadline First
   - ☐ Segmentation and Paging