

佛光大學九十七學年度碩士班甄試招生考試試題卷

系所別：資訊學碩士班

科 目： 計算機概論

用紙第 1 頁共 1 頁

簡答題(每題 6 分)

1. Transform the fraction 0.875 into binary number_____.
2. TCP is a reliable protocol, however, UDP is an unreliable protocol, why?_____
3. Explain the difference between RISC machines and CISC machines_____.
4. Define the three basic constructs used in structured programming_____.
5. What are the advantages of a high-level language over a machine language?_____
6. How is demand paging more efficient than regular paging?_____
7. In TCP/IP, how does it implement Data Link Layer and Physical Layer?_____
8. According to the von Neumann model, data and_____are stored in the memory?
9. Ethernet LANs use _____for medium access control.
10. Explain what is a hashed file?_____

申論題(每題 20 分)

1. Explain (a) the function of a routing table. (b) how does the Network Layer in the OSI model route the packet to the destination by using the hierarchical routing and autonomous system?
2. Write a recursive program to find the MAXIMUM number in an array $A=[1, 2, 3, 4, 5, 6, 7, 8, 9]$, demonstrate how it works on A.