

亞洲大學

九十五學年度碩士班招生考試試題紙

系 所 別	組 別	考試科目	考試日期	時 間	備 註
資訊學院碩士班		電腦網路	95.4.30	10:30-12:10	共一頁

答題須知：請按照順序回答，並於答案卷上標明題號。答案請簡明扼要!!!
未按照上述方式答題者，該題不予計分。

問答題 (100%)：

1. What is an important difference between a symmetric key system and a public key system? (10%)
2. Consider two mobile nodes in a foreign network having a foreign agent. Is it possible for the two mobile nodes to use the same care-of address in mobile IP? Explain the reason. (10%)
3. Use examples to explain and compare the following algorithms:
 - A. Distance vector routing algorithm. (10%)
 - B. Link state routing algorithms. (10%)
4. Compare the IPv4 and the IPv6 header fields. (10%) Do they have any fields in common? (5%)
5. Explain the TCP congestion control mechanisms: AIMD, Slow start, TCP Reno and Fast recovery. (20%)
6. It was preferable to transport SNMP messages in UDP datagrams. Why do you think the designers of SNMP chose UDP rather than TCP as the transport layer protocol of choice for SNMP? (10%)
7. Why is it said that FTP sends control information “out-of-band” ? (5%)
8. What is the hidden node problem? What is the exposed node problem? (10%)