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	94.4.24	10:30-12:10	共一頁

答題須知:<u>請按照順序回答,並於答案卷上標明題號。</u>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. Describe the functions of each layer in the OSI model. (15%)

2. (a) Explain in detail what is TCP three-way handshake ? (10%)

    (b) Explain what the go-back-N(GBN)protocol (10%) and the selective repeat protocol are. (10%)

3. DNS uses UDP instead of TCP. If a DNS packet is lost, there is no automatic recovery. Does it cause a problem, and if so, how is it solved ? (10%)

4. In both IP and ATM, the checksum covers only the header and not the data. Why ? (10%)

5. (a) Explain the fields of the header in an IP packet ? (20%)

    (b) Explain the fields of the header in a TCP segment. (15%)