

系所組別： 電信管理研究所乙組

考試科目： 電腦網路概論

考試日期：0224·節次：3

※ 考生請注意：本試題不可使用計算機

1. Describe the functions of a proxy server and a DNS server, respectively. (10%)
2. Assume your organization has insufficient IPv4 addresses as compared with the number of computers. What are the possible solutions to overcome this problem? (15%)
3. What is SIP? Discuss how SIP is used in the transmission of multimedia.(15%)
4. In a TCP header, there are six control flags including URG, ACK, PSH, RST, SYN, and FIN. Please explain the functions of URG and PSH, and describe why TCP needs these two functions. (20%)
5. What are the required timers for TCP to perform its operation smoothly? Please explain their functions. (20%)
6. Please describe in detail the principle of asymmetric-key cryptography. (20%)