Notes: There are five questions in this assignment. Each question has 10 points.

1. (10 pt.) How does SMTP mark the end of a message body? How about HTTP? Can HTTP use the same method as SMTP to mark the end of a message body? Explain your answer.

2. (10 pt) What is the Apache Web Server? Please describe this web server in a page of write-up. What functions does it currently have? What is the cost of this web server? You may want to look at Wikipedia to answer these questions.

3. (10 pt.) What is the function of a DNS server? Please describe how an iterative query and a recursive query to be handled by DNS servers.

4. (10 pt) Comparing HTTP 1.0 with HTTP 1.1, what are the major differences between the two? Which one will perform better from a client point of view? Do you see any condition that HTTP 1.0 will perform better from a server perspective?

5. (10 pt.) Alice @umn.edu plans to send an email to Bob @google.com. Please describe the sequence of actions of protocols to deliver this email to Bob’s mailbox. Please also describe the actions for Bob to access this email.