Instructions: You are required to work on the homework on your own. Please be legible and state all assumptions clearly. Show all work in order to receive partial credit.

Problem 1: [Circuit switching versus packet switching] (a) Textbook, Page 63, Problem 2; (b) Textbook, Page 63, Problem 3. [5+5=10 points]

Problem 2: [Delay in packet-switched networks] (a) Textbook, Page 63, Problem 5; (b) Textbook, Page 64, Problem 6; (c) Textbook, Page 65, Problem 10. [5+7+8=15 points]

Problem 3: [Message segmentation] (a) Textbook, Page 66, Problem 20; (b) Textbook, Page 68, Problem 22. [5+10=15 points]

Problem 4: [DNS lookup and HTTP] (a) Textbook, Page 172, Problem 6; (b) Textbook, Page 173, Problem 9. [4+6=10 points]