

KFUPM - COMPUTER ENGINEERING DEPARTMENT

COE-540 – Computer Networks - Quiz 04 – Due Sat Dec 10th, 2011

Student Name:

Student Number:

Problem 1 (10 points):

Textbook problem 30 page 510.

Problem 2 (10 points):

- a) The *Protocol* field used in the IPv4 header is not present in the fixed IPv6 header. Why not?
- b) Most IP datagram reassembly algorithms have a time to avoid having a lost fragment tie up reassembly buffers forever. Suppose that a datagram is fragmented into four fragments. The first three fragments arrive, but the last one is delayed. Eventually, the time goes off and the three fragments in the receiver's memory are discarded. A little later, the last fragment stumbles in. What should be done with it? Justify your answer.