

NAME: \_\_\_\_\_

**EE444 Introduction to Computer Networks**

**May 17, 2018**

**Quiz #7 (Group A)**

**CLEARLY STATE YOUR ASSUMPTIONS, SHOW ALL YOUR WORK**

A 1 persistent CSMA-CD network has 1 Mbps link rate and the maximum round trip propagation delay ( $2\tau$ ) is 10 $\mu$ sec. Frames are 1000 bits. Average contention duration is measured to be 10 slots (**excluding** the last successful slot). What is the average total time spent for any frame to be transmitted on this network?

NAME: \_\_\_\_\_

**EE444 Introduction to Computer Networks**

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**Quiz #7 (Group B)**

**CLEARLY STATE YOUR ASSUMPTIONS, SHOW ALL YOUR WORK**

A 1 persistent CSMA-CD network has 1 Mbps link rate. Frames are 1000 bits. Average contention duration is measured to be 100  $\mu$ sec (**excluding** the last successful slot). What is the efficiency of this network?