

2009 Paper 7 Question 9

Digital Communication II

- (a) Reliable transport protocols typically use retransmission timers to decide when a packet that has not been acknowledged should be resent.

Outline the basis on which, and the mechanisms whereby, TCP computes the retransmission timeout value. [10 marks]

- (b) End-to-end Internet protocols such as TCP compute a viable transmission rate by adjusting a sliding window.

Describe the set of procedures that TCP uses continually to calculate the congestion window. [10 marks]