

Network Architectures 3329
Spring 2018
02/28/18

Name: _____

Quiz 7-1

Time Limit: 5 minutes

- **Print your name.**
- Close-book policy: You may not use the text, my class notes and/or any notes and study guides you have created. You may use a calculator. You may not use a cell phone or computer.

Problem	Points	Score
1	1	
2	1	
3	1	
4	1	
5	1	
Total:	5	

1. (1 point) The cause of network congestion — too many sources attempting to send data at too high a rate — can be treated by
 - A. error detection
 - B. retransmission
 - C. adjust sender's congestion window size**
 - D. all of the above

2. (1 point) In TCP, define `cwnd` to be the congestion window size, `rwnd` to be the receive window size, the amount of unacknowledged data can not exceed
 - A. `rwnd`
 - B. `cwnd`
 - C. $\min\{cwnd, rwnd\}$**
 - D. $\max\{cwnd, rwnd\}$

3. (1 point) During TCP slow start, the sender's initial rate is slow but ramps up exponentially fast.
 - A. True**
 - B. False

4. (1 point) The goal(s) of TCP congestion control include
 - A. don't congest the network
 - B. make use of all the available bandwidth
 - C. distributed: realize global objective based only on local information
 - D. all of the above**

5. (1 point) When the congestion window size is w bytes and the current round-trip time is RTT seconds, TCP's transmission rate is no more than w/RTT .