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<th>TA:</th>
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Score:

This is a closed book and notes ten-minute quiz. Write all of your answers directly on this paper.

Good Luck!!

1. (6 points total) True/False. Circle the correct answer for each of the following questions.
   a. IP’s “Best Effort” packet delivery uses retransmissions to ensure that packets are delivered.

   **TRUE**
   
   False. Best effort makes no extra effort to deliver packets.

   **FALSE**

   b. According to the General’s Paradox, messages over an unreliable network cannot be used to guarantee that two entities do something simultaneously.

   **TRUE**

   True. There is no way to guarantee that the last message gets through.

   **FALSE**

2. (6 points) Which of the following one or more properties is NOT provided by TCP?
   1. Reliable, in-order, at most once delivery
   2. Guaranteed bandwidth
   3. Stream oriented
   4. Flow control
   5. Packet oriented
   6. Congestion control
   7. Two-way communications
   8. Guaranteed latency

   #2, #5, #8 are not provided by TCP.

3. (8 points) Which of the following one or more properties ARE provided by transactions?
   1. Isolation
   2. Replication
   3. Conflict serializability
   4. Consistency
   5. Concurrency
   6. Atomicity
   7. Durability
   8. Reliability

   Transactions provide #1, #4, #6, #7.