Mid-TERM I review

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Textbook Chapters Covered: 1, 6 and 7.

Descriptive questions and Problems: 50 points

***Study Guide***

1. Chapter 7 – Wireless Networks
   1. CDMA
   2. The 802.11 Architecture, Active and Passive Scanning in Wireless Networks
   3. 802.11 MAC Layer CSMA/CA Protocol – SIFS and DIFS
   4. CTS and RTS
2. Chapter 1 - Introduction
   1. What is a Protocol?
   2. Packet Switching (Store and Forward Transmission, Queuing and Packet Loss)
   3. Multiplexing in Circuit-Switched Networks
   4. Overview of Delay in Packet-Switched Networks

* Comparing Transmission and Propagation Delay
  1. Layered Architecture
  2. Throughput in Computer Networks

1. Chapter 6 - Data Link Layer
   1. Error Detection and Correction Techniques
      * 1. Parity Checks
        2. Checksum
        3. CRC
        4. Hamming Code – Error Detection and Correction
        5. Slotted ALOHA
        6. CSMA/CD – Estimation of Conditional Probabilities