Exam Format

10-30 points on each of the five chapters covered (#5-#9)
(Five 1-point short-answer questions, seven 5-point essay questions, and six 10-point essay questions)

Chapter 5: Link Layer & LANs (30 points)
- Flow Control (stop-and-wait, sliding windows)
- Error Control (parity check, cyclic redundancy check)
- Data Link Protocols (HDLC, SLIP, PPP, ATM)
- Medium Access Control (Ethernet, Token Ring, Token Bus, DQDB)
- Link Layer Switching (virtual LANs, MPLS)

Chapter 6: Wireless & Mobile Networks (25 points)
- Wireless Protocols (CDMA, frequency hopping, direct sequence, chip sets)
- Cellular Communication (base stations, handoff, interference)
- Wireless LANs (access points, IEEE 802.11, mobile IP, wireless security)

Chapter 7: Multimedia Networking (20 points)
- Applications (compression, streaming audio/video, voice over IP)
- Quality of Service (leaky/token bucket, differentiated/integrated services)

Chapter 8: Security in Computer Networks (15 points)
- Communication Protection (public-key encryption, authentication)
- Security Protocols (Secure Sockets Layer, IPsec, Wi-Fi Protected Access)

Chapter 9: Network Management (10 points)
- Management Protocols (Management Information Base, ASN.1, SNMP)