Final exam

- Close-book/notes
- Wednesday 12/11, 8-9:50am
- Questions similar to midterm exam
 - Multiple choice (6 question 16 points)
 - Matching (4 question 20 points)
 - Completion (7 question 24 points)
 - Short answers (4 question 40 points)
- Chapters 3,4, 6, 7 & 8
- Review quizzes & homework problems

- Starting from slide 3-92 Chapter3-Covered
- Flow control & congestion control
- TCP connection management
- TCP flow control allows senden to not our whelm the recions butter. Done by recion Sending—its free buffer size in the TCP header.
- TCP Congestion Control instrad reduces the senden's data sending rate by reducing the sending windows we when own 1055 deketer

Syn bits Sun ACK Finbit Act = 2 Kennan SSHAPSH = 1/2 cund just before loss nest

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Therefore

before

- Key networking-layer functions
 - Forwarding & routing Forwading local, Rowing = Global
 - Longest prefix matching brown inpuliate source to distinction by the lable of the longest to I table.

 Subnet and IPv4 addressing remember to constructions of the stricks of the subnestices of the subnession of the subnestices of the subnession of the subness 4 delamine 1 oute of Pailot
 - - □ CIDR: a.b.c.d/x & (ount R to L till get to Z1/0, then (hoose that #
 - □ DHCP returns: adds on first nop town for there, name & IP Adds of DNS some M WOLK WOOK
- NAT: Network Address Translation

La Quiz 9 diagram H+12 Pool 80

otionsport

Chapter 6 Link layer has responsibility of translain-data gran from one node to physically adjacent node on a link

- Link layer services Traing, flow Control, Holf/Fulduplex [1220]

 CRC:
- □ Multiple Access protocols mal = 48616
 - Categories and example protocols
- Address Resolution Protocol
- Switches
- · link layer
- . Transport
- · Store N Forward
- · Plus & Play Soll Learning
- · flooding

MAP Collegeries Co Point-to-paint
- Drade A. Broadrast

- Randon Access
- Takinge Turns
- Channel Polition

- □ CDMA = Dothe bits/Explain steps
- WiFi 802.11
 - Passive/Active scanning
 - Collision avoidance



- □ Mobility Pequestle and / (lear lo send
 - direct routing & indirect routing



(onfi destinity, Inleguig, Avalibility

- Network security (CIA triad)
- Symmetric key and public key schemes
- Certification Authorities (CA) Binds public Key to entity, proof of identity
- Securing emails
 - Confidentiality, integrity, authentication
- □ TLS vs. IPSec
- Firewall
 - □ Three types
 - -Stateless: filler parted by Parket
 - State Full: tracks every TCP Conrection
 - application: Filter IP/ NOP, TOP