

CSC 469/569 WEEK 10 QUIZ STUDY GUIDE

PROF G. C. MUGANDA

There will be a short quiz at the end of class on Tuesday. Concepts covered are as follows:

TCP Connection management: SYN, SYNACK segment, the three-way handshake; section 3.5.6, page 253-254 of textbook.

Difference between forwarding and routing; forwarding tables.

Network Service models: section 4.1.2; page 310-312; skip the CBR and ABR ATM stuff.

Virtual Circuit and Datagram networks, section 4.2, including the material on page 318 on network prefixes and their use in forwarding tables.

IP Datagram Format; section 4.4.1; meanings of the various fields in the IP datagram; Datagram fragmentation; IPv4 Addressing (section 4.4.2), dotted decimal notation, subnet and subnet masks, DHCP, CIDR, classful addressing (page 344); and Network Address Translation (NAT) page 349; Private IP addresses.

You should have a good understanding of UDP programming. You should understand how UDP Programming is done in Java, including the use of the DatagramPacket class, its main constructors and methods, (only those constructors and methods we used in the homework projects) and also the DatagramSocket class, and its main constructors and methods (again, meaning those constructors we used in the homework programming projects.)