

ITS 270 Homework 3

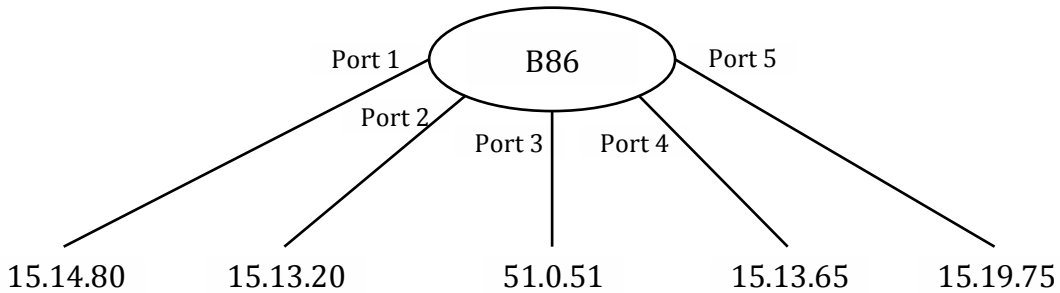
Due: 9/18/2012 before class

Please put Course number, your Full Name, Assignment number on top right.
Submit your homework on Blackboard. Please put all your codes in one zip file and name your zip file as "ITS270-hw3-FirstName-LastName.(doc, docx, or zip)".
Any failure to do so will result in deduction. Please show all your work for full or partial credit.
Total possible point is 30.

1. Textbook p.90, problem 4. (5pts)

2. Textbook p.92, problem 8. (5pts)

3. During the spanning tree process among bridges, bridge 86 (i.e., B86) receives configuration messages (BPDU) at each port. B86 has 5 ports therefore, receives 5 different configuration messages. Based on this information, B86 generates new configuration message (PDU) and transmits. Find new configuration message that B86 generates and which port(s) it will transmit this configuration message. (10pts)



4. Given topology, find the Root Ports, Designated Ports, and Blocked Ports. Port number is located at each bridge where the link is connected. Fill in the Table below showing those information. Link costs are shown on the link (as shown C=x). (10pts)

Bridge Number	Port1 (P1)	Port 2 (P2)	Port 3 (P3)	Port 4 (P4)	Port 5 (P5)
B1			NA	NA	NA
B2				NA	NA
B3					
B4			NA	NA	NA
B5			NA	NA	NA
B6			NA	NA	NA
B7			NA	NA	NA

