ITS323 – Quiz 7

Name: _____

ID: _____   Mark: _____ (out of 10)

Question 1 [4 marks]

Assume classless addressing is used. Computer A has IP address 129.129.129.129/13

   a) What is the directed broadcast address for the network?

   b) How many IP devices can be attached to the network?

Question 2 [4 marks]

Draw a diagram to illustrate the TCP connection setup process between client A and server B. You must show the important flags for each segment, as well as the sequence and acknowledgement numbers when relevant. Assume A chooses an initial sequence number of 105, and B chooses 63.

Question 3 [2 marks]

If you have three web browsers (Internet Explorer, Firefox, Chrome) open on your computer with IP address 103.64.2.1, and you use all three browsers to transfer data with the web server at www.google.com (which has IP 216.239.61.104), then when the operating system on your computer receives data from the web server, how does it know which web browser to send the data to? Explain your answer.