

ITS 413 – QUIZ 2

First name: _____ Last name: _____

ID: _____

Total Marks: _____

out of 10

Question 1 [7 marks]

- a) Every company with their own IP address (or range of addresses) has an Autonomous System (AS) number. True False
- b) An Interior Gateway Protocol is used for routing between Autonomous Systems. True False
- c) When referring to agreements between ISPs, an ISP must always pay another ISP for transporting their traffic. True False
- d) A Tier-1 ISP enters peer agreements with all other Tier-1 ISPs. True False
- e) IEEE 802.11 uses the same MAC protocol as IEEE 802.3. True False
- f) IP routers typically have more than one network interface. True False
- g) IP implements a retransmission scheme to ensure reliability. True False

Question 2 [3 marks]

A network has three wireless LAN basic service sets, with two clients in each set. The extended service set is connected via a single Ethernet switch. This switch also connects to a fixed router A. Router A connects via a PDH link to another router B. Router B connects to a host via Ethernet.

- a) Draw the complete network, labelling all nodes (devices) in the network and showing connections between nodes. [2 marks]
- b) If IP is used in this network, how many IP subnets exist. Show them on your diagram. [1 mark]