

ITS 413 – QUIZ 2

First name: _____ Last name: _____

ID: _____

Total Marks: _____

out of 10

Question 1 [7 marks]

- a) An Interior Gateway Protocol is used for routing within an Autonomous System.
True False
- b) There are many different types of Exterior Gateway Protocols in use today.
True False
- c) An Autonomous System contains a single IP subnet.
True False
- d) A transit agreement between ISPs means one ISP will pay the other ISP for traffic transferred between the two networks.
True False
- e) IEEE 802.11 has several different physical layer protocols.
True False
- f) IP must be implemented in all hosts, routers and switches connected to the Internet.
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]