

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) An Autonomous System may contain multiple IP subnets. | True | False |
| c) When referring to the physical connection between networks, Private Peering means one network operator (e.g. ISP) must pay the other. | True | False |
| d) A transit agreement between ISPs means the two ISPs have agreed to exchange traffic for free. | True | False |
| e) CAT and TOT (two ISPs in Thailand) are considered Tier-1 ISPs. | True | False |
| f) IEEE 802.11 has several different physical layer protocols. | True | False |
| g) IP must be implemented in all hosts, routers and switches connected to the Internet. | | 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]