

ITS 413 – QUIZ 1

First name: _____ Last name: _____

ID: _____

Total Marks: _____

out of 10

Question 1 [7 marks]

- a) Digital Subscriber Line (DSL) technologies always provide a higher download speed than upload speed. True False
- b) Synchronous Digital Hierarchy (SDH) provides higher data rates than Plesionchronous Digital Hierarchy (PDH). True False
- c) Asynchronous Transfer Mode (ATM) is an example of a circuit switching based core network technology. True False
- d) The advantage of coaxial cable (versus optical fibre) for Internet access is that cable networks use of the existing Public Switched Telephone Network (PSTN). True False
- e) ADSL is a point-to-point network technology. True False
- f) WiMax can be used for fixed point-to-point wireless links True False
- g) IEEE 802.15.4 (also referred to as ZigBee) is used for wireless wide area networks. True False

Question 2 [1 mark]

What is a disadvantage of optical fibre as a wired access network technology? Explain.

Question 3 [1 mark]

Explain an advantage of using directional antennas (versus omni-directional antennas).

Question 4 [1 mark]

A common network topology (in Japan at least) is using optical fibre to the building, and then using a copper line within the building (e.g. to each apartment). Name an appropriate technology for use over the copper line.