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 packet switching based core network technology.   True   False

d) If data rate was the primary factor, you would choose X.25 (instead of Frame Relay or ATM) for a core network.   True   False

e) 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

f) Except for some of the very small number of remaining dial-up modems users, the Public Switched Telephone Network (PSTN) is no longer used for Internet access by end-users.
                                                                                                                  True   False

g) ADSL is a point-to-multipoint network technology.   True   False

Question 2 [1 mark]

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

Question 3 [1 mark]

Name three wired access network technologies.

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.