

## ITS323 – Quiz 1

Name: \_\_\_\_\_

ID: \_\_\_\_\_

Mark: \_\_\_\_\_ (out of 10)

### Question 1 [7 marks]

In this question you must fill in the space by choosing a word/phrase from the following list. There may be more than one correct answer. 1 mark per correct answer.

application   data link   hardware   ISP   LAN   logical   network  
physical   port   protocol   standard   transport   WAN

- a) The \_\_\_\_\_ layer includes protocols for determine a path across the Internet.
- b) \_\_\_\_\_ addresses are used to identify application processes in a computer.
- c) A router must implement the \_\_\_\_\_ layer of the TCP/IP protocol stack.
- d) steve@hotmail.com is an example of a \_\_\_\_\_ address.
- e) The address 00:17:31:5a:e5:89 is an example of a \_\_\_\_\_ address.
- f) The \_\_\_\_\_ layer is normally implemented in the NIC.
- g) Campuses or cities are normally connected via a \_\_\_\_\_.

### Question 2 [3 marks]

Consider a simple 2-layer protocol architecture. The top layer adds a 20 Byte header to data from the user, while the bottom layer adds a 15 Byte header and 15 Byte trailer. No segmentation is used. If a user generates 150 Bytes of data to send via this protocol architecture, what is the throughput of the user's data if using a 400kb/s link?