

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
Operating System (OS) Network Interface Card (NIC)
National Internet Exchange (NIX) International Internet Gateway (IIG)

- a) Email and instant messaging protocols are part of the _____ layer.
- b) The _____ layer is part of hosts, but not needed for routers in the Internet.
- c) A _____ sets rules and message formats for communication.
- d) _____ addresses are used to identify a computer interface within a network.
- e) Thailand-based ISPs connect to each other via _____.
- f) The physical layer is normally implemented in the _____.
- g) SIIT Bangkadi and Rangsit campuses are connected together via a _____.

Question 2 [3 marks]

Consider a simple 2-layer architecture. The top layer adds a 20 Byte header to the data. The bottom layer breaks the received data into segments containing no more than 3000 Bytes of data, and adds a 10 Byte header to each segment. How many bytes are sent across the link if the user generates 10,000 Bytes of data to be sent to the destination?