SIIT ITS 323

ITS 323 – QUIZ 7 (CS SPECIAL)

First name:	Last name:	Last name:			
ID:	Total Marks:				
		ut of 10			

Question 1 [4 marks]

a) Draw a diagram to illustrate the TCP data transfer between A and B. The TCP connection has already been established, and A chose ISN=64 and B chose ISN=77. First A sends 1000 bytes of data to B, and after B acknowledges this, B sends 500 bytes to A. Show the segment types, sequence and acknowledgement numbers.

Question 2 [3 marks]

True or false:

a)	TCP includes flow control.	T	/	F
b)	SNMP is used for email transfer	T	/	F
c)	Given an IP address DNS will return a domain name	Т	/	F

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Question 3 [3 marks]

The packet on an internet has the following information in it:

Source IP: 103.16.20.3

Destination IP: 216.155.13.6 Protocol number: 6 (TCP) Source port number: 50134 Destination port number: 22

Source MAC address: 04:1A:44:B5:43:E7

Destination MAC address: 65:D3:A6:12:87:90

a) Is the above packet part of the same TCP connection as the packet below: YES | NO

Source IP: 103.16.20.3

Destination IP: 216.155.13.6 Protocol number: 6 (TCP) Source port number: 50134 Destination port number: 80

Source MAC address: 04:1A:44:B5:43:E7

Destination MAC address: 65:D3:A6:12:87:90

b) Explain your answer from part (a).

Bonus Questions (marks from these questions are added to your overall quiz score from the five best quizzes; each part is worth 1 mark)

a)	What class	of address	should be	used for a	network that	contains 30	10 hosts?
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Class: _____

b) How many hosts can be on a network with subnet mask 255.255.254.0?

Hosts:

- c) An IP router will change the IP address in an IP datagram before forwarding to the next router. $T \ / \ F$
- d) Retransmission schemes can be used at both the data link layer and transport layer.

T / F

e) What is the network address for the classless IP address 190.3.254.16/25?

Network address: