SIIT ITS323

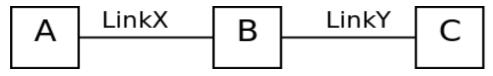
ITS323 - Quiz 1

Name					
ID:		Mark:	(out of 10)		
Email	address:	_ @ hotmail/gmail/othe	r (that you used on Ma	ailist)	
Quest	ion 1 [2 marks]				
a)	Draw the Internet protocol stack, giving the	the Internet protocol stack, giving the names of each layer. [1 mark]			
1.			1, [4]	7	
D)	For the following examples addresses, inc i. Port 443		correspond to. [1 mark	J	
	ii. The 32-bit IP address 72.16.4.3	-			
Quest	ion 2 [3 marks]				
True c	r False – circle the most accurate answer:				
a)	A protocol is the same as a standard.		T	F	
b)	If the average delay of 10 messages is 30ms, then the jitter is 30ms. T			F	
c)	With a half-duplex link, A can transmit to B and B can transmit to A, but not at the same				

Question 3 [3 marks]

time.

Consider the network below with source A sending a message to destination C. The message passes via B.



Calculate the delay for the message for conditions in the table below. Assume both processing delay

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and queuing delay for all devices is 0.

Message size	2000 Bytes	
Link X		
- Signal speed	2.50E+008 m/s	
- Data rate	8 Mb/s	
- Distance	25000 m	
Link X		
- Signal speed	2.50E+008 m/s	
- Data rate	16 Mb/s	
- Distance	25000 m	

Question 4 [2 marks]

To send a 2KB file from A to B, the layers within a protocol architecture contribute an additional 500B of overhead. If the data rate of the link from A to B is 10Mb/s, what is the maximum throughput achieved when sending the file?