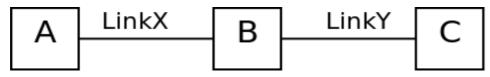
SIIT ITS323

ITS323 – Quiz 1

Name:			
ID:		Mark:	(out of 10)
Email	address:	@ hotmail/gmail/othe	er (that you used on Mailist)
Quest	on 1 [2 marks]		
a)	Draw the Internet protocol stack, givin	ng the names of each layer.	[1 mark]
b)	For the following examples addresses,	indicate which layer they	correspond to. [1 mark]
	i. Port 80	Layer:	
	ii. www.google.com	Layer:	
-	on 2 [3 marks]		
	r False – circle the most accurate answe		
a)	All protocols are implemented as part	of the operating system.	T F
b)	Considering the performance requirement video traffic have the same requirement		raffic, audio traffic and T F
c)	With a point-to-multipoint link, the trathe same time.	nsmission of A can be rece	eived by both B and C at T F

Question 3 [3 marks]

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



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Calculate the delay for the message for conditions in the table below. Assume both processing delay and queuing delay for all devices is 0.

Message size	1000 Bytes		
Link X			
- Signal speed	2.00E+008 m/s		
- Data rate	1 Mb/s		
- Distance	10000 m		
Link X			
- Signal speed	2.00E+008 m/s		
- Data rate	2 Mb/s		
- Distance	10000 m		

Question 4 [2 marks]

To send a 1KB file from A to B, the layers within a protocol architecture contribute an additional 200B of overhead. If the data rate of the link from A to B is 6Kb/s, what is the maximum throughput achieved when sending the file?