SIIT ITS 323

## ITS 323 – QUIZ 7 (ITB)

	113 323 – QUIZ / (11B)		
First name:	Last name:		
ID:	Total Marks:		
		out of 10	
Question 1 [2 marks]			
	entifier types to their correct meaning (write either from the following address/identifier types:	ner the letter or the full	
a. Port number	•		
b. Hardware ac	ddress		
c. Protocol nur	mber		
d. Domain nan	ne		
e. IP address			
	Physical addresses specific to a LAN or WA	AN technology	
	•		
	I.1		
Question 2 [2 marks]			
	s that identify a unique TCP connection:		
_			
Question 3 [3 marks]			
True or false:			
a) UDP provides	a full duplex connection.	T / F	
b) DNS maps dor	main names to IP addresses	T / F	
c) Two protocols	used in email transfer are POP and SMTP	T / F	

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U	uestion	4	IJ	marks

a)	Draw a diagram to illustrate the TCP connection setup process between A and B. You
	must include the segment types as well as any other important information carried in the
	segments. Assume A chooses an initial sequence number of 82, and B chooses 17.

b) After the connection is setup, if the first data sent from B to A is a segment containing 2000 bytes of data, then what is the acknowledgement number sent from A to B in response?

**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 is the broadcast address for the classless IP address 160.14.16.3/17?

	Broadcast address:
b)	What subnet mask should be used to create a network with a maximum of 126 hosts?

- c) Datagram packet switching requires a header to be added to each packet; virtual circuit packet switching *does not* add a header to each packet.

  T / F
- d) An IP router will change the IP address in an IP datagram before forwarding to the next router.
- e) What is the network address for the classful IP address 120.3.254.16?

Network address:
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Subnet mask: \_\_\_\_\_