

ITS 323 – QUIZ 7 (CSA)

First name: _____ Last name: _____

ID: _____

Total Marks: _____

out of 10

Question 1 [2 marks]

Match the address/identifier types to their correct meaning (write either the letter or the full name). You can select from the following address/identifier types:

- a. Port number
- b. Hardware address
- c. Protocol number
- d. Domain name
- e. IP address

	Logical addresses identifying a network interface
	Physical addresses specific to a LAN or WAN technology
	Identify the transport protocol
	Identify application protocols

Question 2 [marks]

True or false:

- a) A single TCP segment may contain data, as well as an acknowledgment T / F
- b) DNS maps IP addresses to hardware addresses T / F
- c) Two protocols used in email transfer are IMAP and SNMP T / F

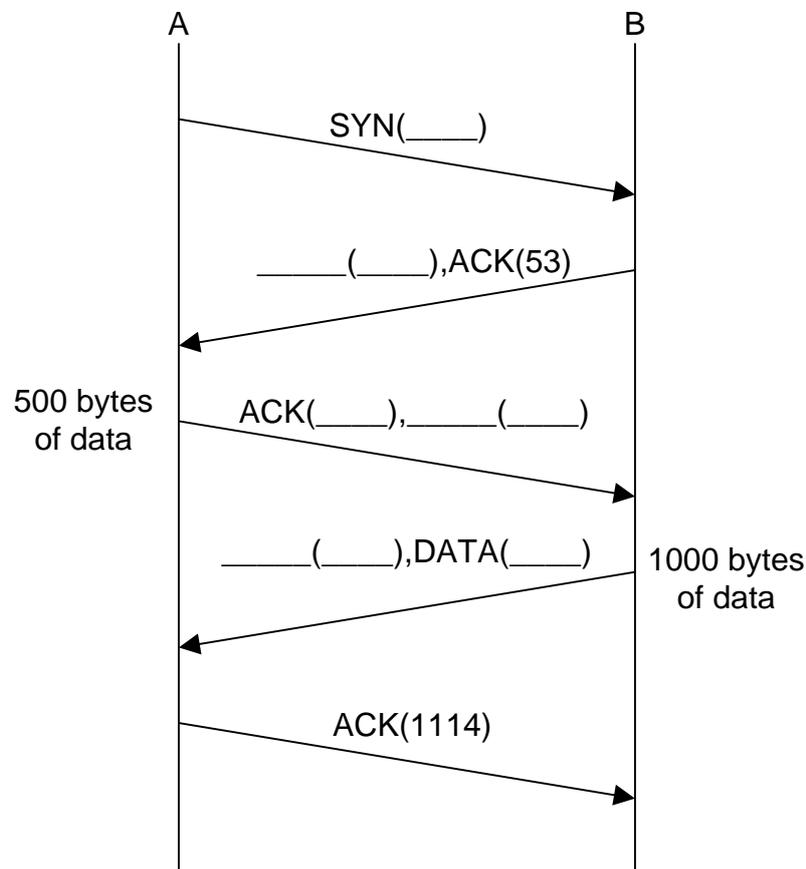
Question 3 [2 marks]

List the four addresses that identify a unique TCP connection:

1. _____
2. _____
3. _____
4. _____

Question 4 [3 marks]

Complete the missing parts in the figure below which shows TCP connection setup between A and B, as well as data transferred from A to B (500 bytes) and from B to A (1000 bytes). The format of messages is as follows: Type(Number), and of course some segments may have multiple types.



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 254 hosts?

Subnet mask: _____

- c) Name the LAN MAC protocol that is similar in concept to Synchronous TDM

MAC protocol: _____

- d) Name the routing strategy where a router randomly selects a link to transmit a packet on.

Strategy: _____

- e) What is the network address for the classful IP address 120.3.254.16?

Network address: _____