

## ITS 323 – QUIZ 7 (CSB)

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

_____	Physical addresses specific to a LAN or WAN technology
_____	User-friendly identifiers for IP interfaces
_____	Logical addresses identifying a network interface
_____	Identify the transport protocol

### Question 2 [ marks]

True or false:

- |   |       |
|---|-------|
| a) UDP provides a full duplex connection.                 | T / F |
| b) DNS maps domain names to IP addresses                  | T / F |
| c) Two protocols used in email transfer are IMAP and SNMP | T / F |

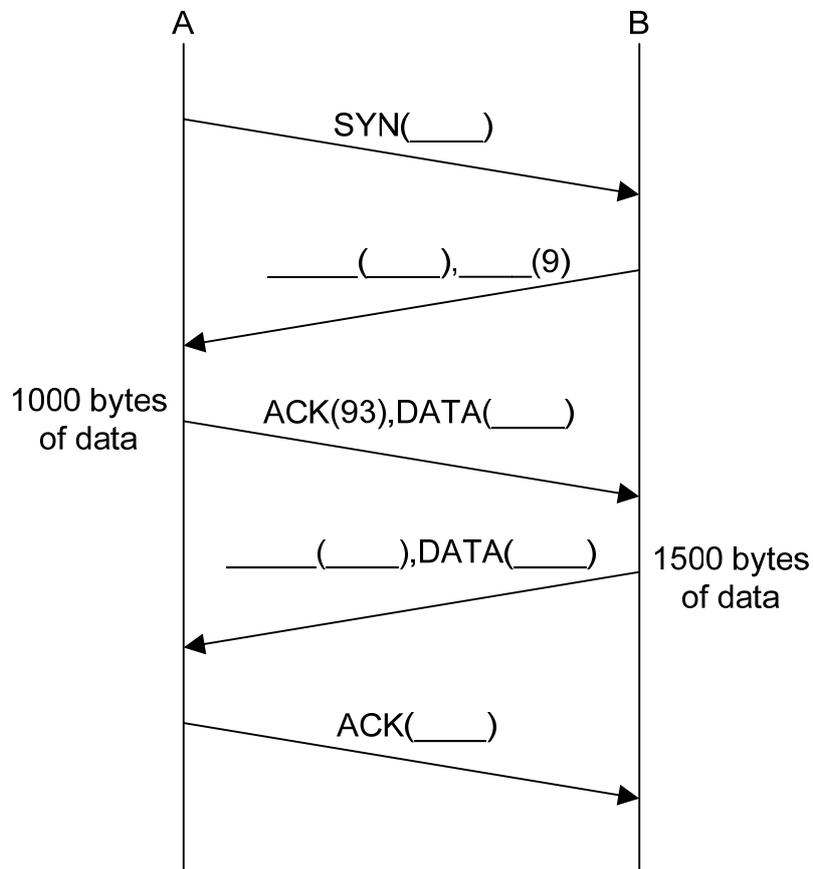
### Question 3 [2 marks]

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 (1000 bytes) and from B to A (1500 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 160.14.12.8/25?

Broadcast address: \_\_\_\_\_

- b) What subnet mask should be used to create a network with a maximum of 62 hosts?

Subnet mask: \_\_\_\_\_

- c) Name the LAN MAC protocol that is similar in concept to Statistical 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 190.3.254.16?

Network address: \_\_\_\_\_