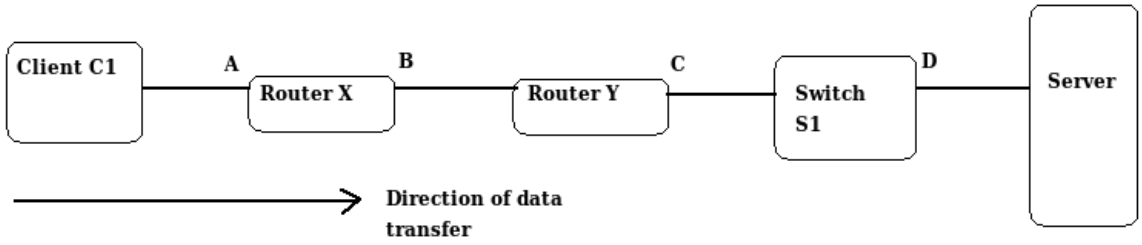
CS-307 Computer Networks 24th October 2018
QUIZ #2 Duration: 20 Minutes
Section – B Weightate 5%
Registration Number: _____

1. Consider the scenario shown below, with a client computer connected to a web-server via two routers and one switch. Client C1 wants to send data to Server. You are given four observation points (indicated A-D) in the corresponding Figure.

At each of these ingress/egress interfaces (A-D), work out the source and destination network layer (IP) and data link layer (MAC) address required to complete this data transfer.

Notes:
i. Direction of data transfer to consider for this scenario: client C1 → server
ii. Represent network layer addresses by: IP – C1, IP-Server, IP-Router#, etc.
iii. Denote data link layer addresses using MAC-C1, MAC-Server, etc.



At Point A:

Source IP address: [e.g, IP-Router X]
Destination IP address:
Source MAC address: [e.g, MAC-Client C1]
Destination MAC address:

At Point B:

Source IP address:
Destination IP address:
Source MAC address:
Destination MAC address:

At Point C:

Source IP address:
Destination IP address:
Source MAC address:
Destination MAC address:

At Point D:

Source IP address:
Destination IP address:
Source MAC address:

Destination MAC address: