

East West University
CSE 405 (Computer Networks)
Lab Test
Total Marks: 20
Time: (35min +5min) = 40min

Part A: Please answer the following questions. (6 marks)

1. Followings are the information of your PC, your gateway and a distant WEB server.

Your PC: 192.168.20.120 (IP) ----- 46:FC:2D:10:36:C0 (MAC)

Your Gateway: 192.168.20.254 (IP) ----- FC:2F:3A:25:36:F0 (MAC)

WEB servers: 120.136.36.127 (IP) ----- FC:26:12:10:D0:F0 (MAC)

Assuming you have captured all the packets while pinging the WEB server from your PC, fill in the following information that you will get in the captured ICMP packets.

- a) What is the IP and MAC address of your computer?

IP: _____ MAC: _____

- b) What is the destination IP and MAC address?

IP: _____ MAC: _____

Give the reasoning of your given answer.

Part B: Please answer the following question. (14 marks)

- 1) Draw the following network diagram on paper and fill in the IP addresses manually to all the interfaces and devices. Choose IP addresses ONLY from "B" classes as you wish and write it down where applicable; circle all the networks and its associated network addresses. Write down ONLY the routing tables for router R1 and R3 for all possible destinations considering OSPF. (Note: As you are choosing IP addresses as you wish, the orientation and design should be unique)

