CSE 361: Computer Networks

Term Test #3

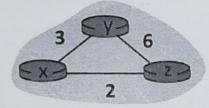
Marks: 20

Time: 40 minutes

(2)

## Answer the following Questions:

- Q1. Compare and contrast Link-state and Distance-vector routing algorithms. (4)
  Q2. Elaborate: RIP, OSPF, BGP, DHCP. (2)
- Q3. Consider the following three node topology. Compute the distance tables after the initialization step and after each iteration of a synchronous version of the distance-vector algorithm. (10)



- Q4. Consider the network setup in the following figure. Suppose that the ISP assigns the router the address 24.34.112.235 and that the network address of the home network is 192.168.1/24.
- a. Assign addresses to all interfaces in the home network.
- b. Suppose each host has one ongoing TCP connection, all to port 80 at host 128.119.40.86. Provide the three corresponding entries in the NAT translation table. (3)

