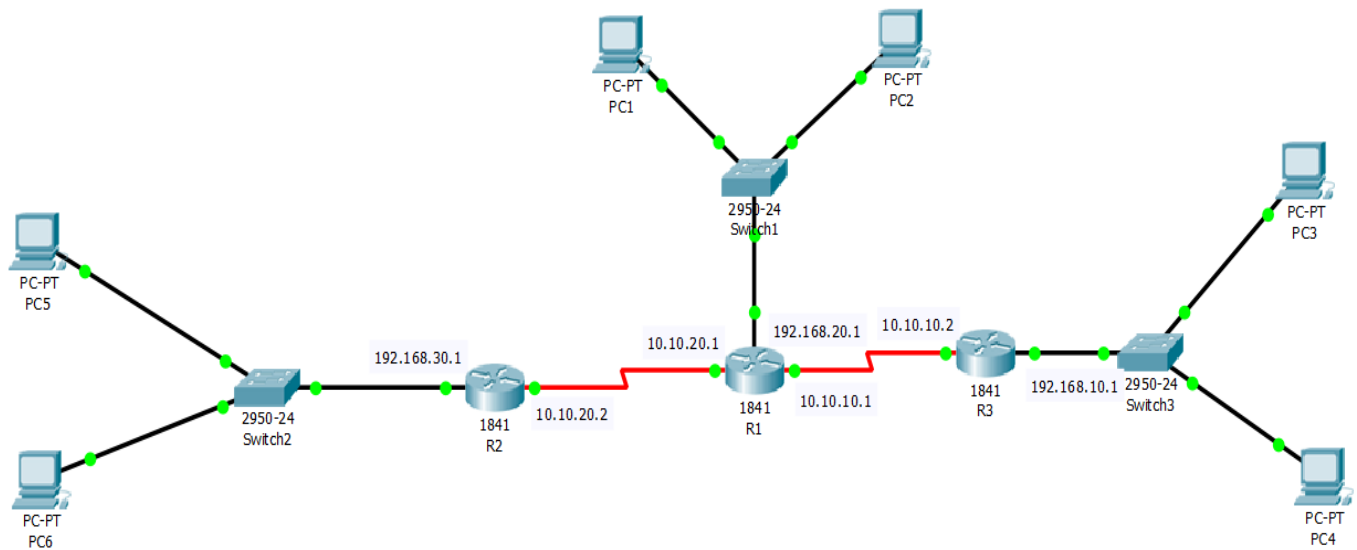# CO323 : Computer Communication Networks II
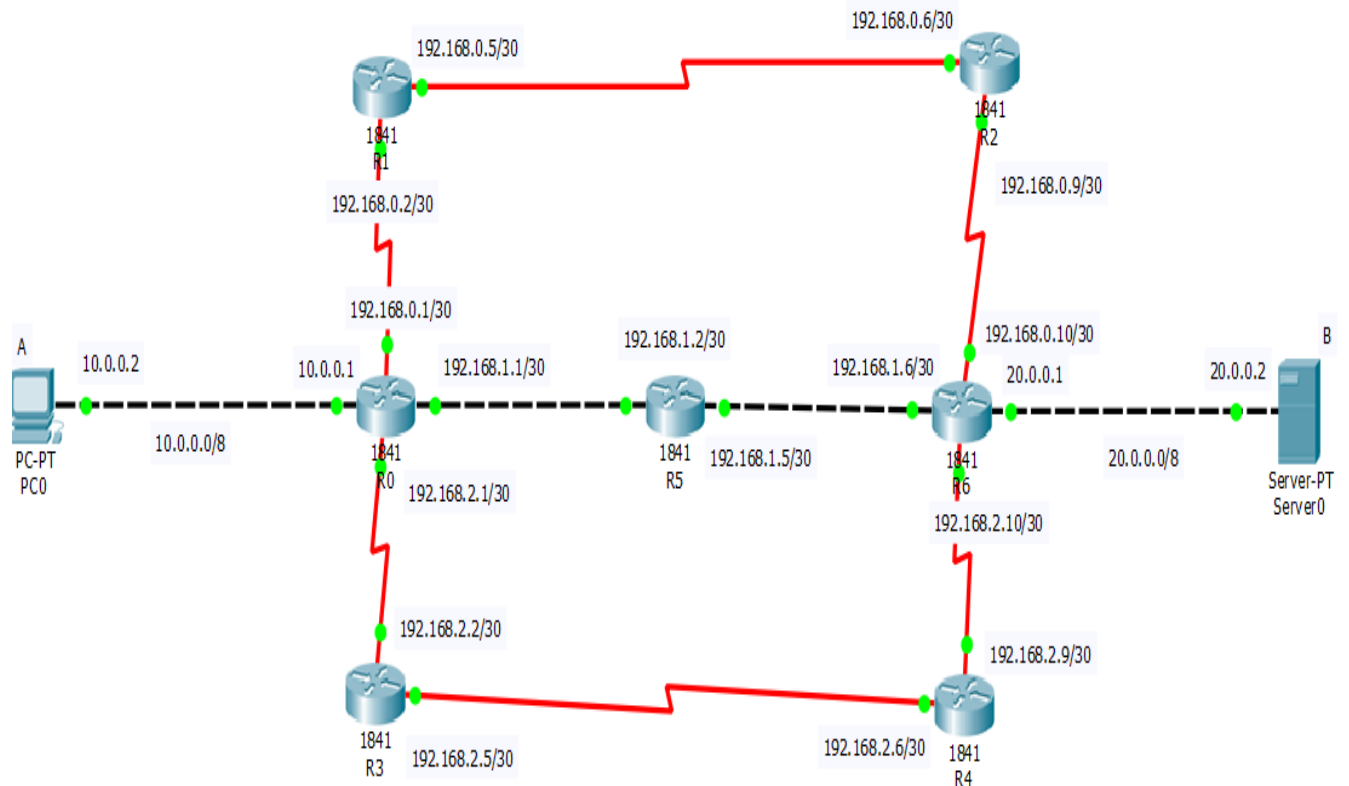
Lab 05

Routing

Q1)

1. Assign appropriate IP addresses to PC1 – PC2.
2. Add static routes to enable communication between any two nodes.
3. Use "show IP route" to display routing configurations at R1.

Q2)

1. Configure RIP (Routing Information Protocol) in the network.
2. Print the RIP routing table on R5.
3. Re configure the same network with OSPF.
4. Print the OSPF routing table on R5.

Initial IP Configuration

Device	Interface	IP Configuration	Connected with
PC0	Fa0/0	10.0.0.2/8	Router0's Fa0/0
Router0	Fa0/0	10.0.0.1/8	PC0's Fa0/0
Router0	Fa0/1	192.168.1.1/30	Router5's Fa0/1
Router5	Fa0/1	192.168.1.2/30	Router0's Fa0/1
Router5	Fa0/0	192.168.1.5/30	Router6's Fa0/0
Router6	Fa0/0	192.168.1.6/30	Router5's Fa0/0
Router6	Fa0/1	20.0.0.1/8	Server0's Fa0/0
Server0	Fa0/0	20.0.0.2/8	Router6's Fa0/1
Router0	Serial 0/0/0(DCE)	192.168.0.1/30	Router1's Se0/0/0
Router1	Serial 0/0/0	192.168.0.2/30	Router0's Se0/0/0
Router1	Serial 0/0/1(DCE)	192.168.0.5/30	Router2's Se0/0/1
Router2	Serial 0/0/1	192.168.0.6/30	Router1's Se0/0/1
Router2	Serial 0/0/0(DCE)	192.168.0.9/30	Router6's Se0/0/0
Router6	Serial 0/0/0	192.168.0.10/30	Router2's Se0/0/0
Router0	Serial 0/0/1	192.168.2.1/30	Router3's Se0/0/1
Router3	Serial 0/0/1(DCE)	192.168.2.2/30	Router0's Se0/0/1
Router3	Serial 0/0/0	192.168.2.5/30	Router4's Se0/0/0
Router4	Serial 0/0/0(DCE)	192.168.2.6/30	Router3's Se0/0/0
Router4	Serial 0/0/1	192.168.2.9/30	Router6's Se0/0/1
Router6	Serial0/0/1(DCE)	192.168.2.10/30	Router4's Se0/0/1