**C)OSPF (OPEN SHORTEST PATH FIRST)**

**Command ;**

**Router 1;**

Router>enable

Router#configure terminal

Router(config)#interface GigabitEthernet0/0/0

Router(config-if)#ip address 192.168.10.1 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface Serial0/1/0

Router(config-if)#ip address 10.0.0.1 255.0.0.0

Router(config-if)#no shutdown

Router(config-if)#ex

**OSPF ROUTING COMMAND**

Router(config)#router ospf 1

Router(config-router)#network 192.168.10.0 0.0.0.255 area 0

Router(config-router)#network 10.0.0.0 0.255.255.255 area 0

Router(config-router)#ex

**Router 2;**

Router>enable

Router#

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface GigabitEthernet0/0/0

Router(config-if)#ip address 192.168.20.1 255.255.255.0

Router(config-if)#ip address 192.168.20.1 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial0/1/0

Router(config-if)#ip address 10.0.0.2 255.0.0.0

Router(config-if)#ip address 10.0.0.2 255.0.0.0

Router(config-if)#no shutdown

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial0/1/1

Router(config-if)#ip address 20.0.0.1 255.0.0.0

Router(config-if)#

Router(config-if)#no shutdown

Router(config-if)#ex

**OSPF ROUTING COMMAND**

Router(config)#router ospf 1

Router(config-router)#network 192.168.20.0 0.0.0.255 area 0

Router(config-router)#network 10.0.0.0 0.255.255.255 area 0

Router(config-router)#network 20.0.0.0 0.255.255.255 area 0

Router(config-router)#ex

**Router 3;**

Router>enable

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface GigabitEthernet0/0/0

Router(config-if)#ip address 192.168.30.1 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface Serial0/1/0

Router(config-if)#ip address 20.0.0.2 255.0.0.0

Router(config-if)#no shutdown

Router(config-if)#ex

**OSPF ROUTING COMMAND**

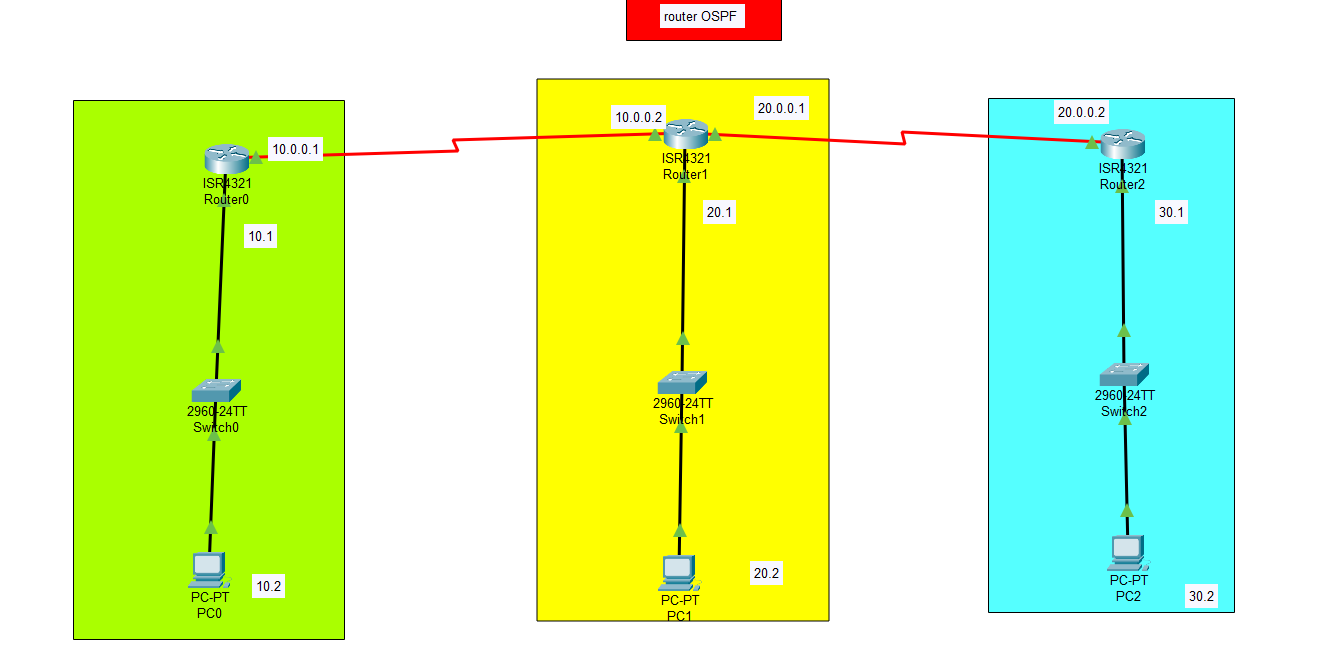
Router(config)#router ospf 1

Router(config-router)#network 192.168.30.0 0.0.0.255 area 0

Router(config-router)#network 20.0.0.0 0.255.255.255 area 0

Router(config-router)#ex

00:12:25: %OSPF-5-ADJCHG: Process 1, Nbr 192.168.20.1 on Serial0/1/0 from LOADING to FULL, Loading Done

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