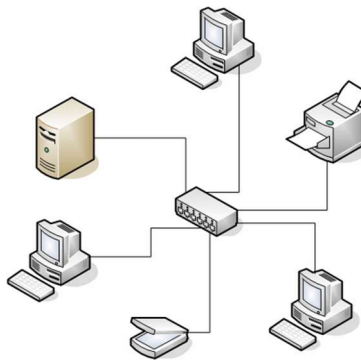


COE 371L  
Lab Final Exam  
Fall 2019  
Section 2



Name : \_\_\_\_\_  
ID : \_\_\_\_\_

## **Router Configuration**

### **GW1 Interface Table**

```
GW1#sh ip int br
Interface                IP-Address      OK? Method Status              Protocol
GigabitEthernet0/0       unassigned      YES unset  administratively down down
GigabitEthernet0/1       unassigned      YES unset  administratively down down
GigabitEthernet0/2       unassigned      YES unset  up                  up
GigabitEthernet0/2.11    172.11.0.1      YES manual  up                  up
GigabitEthernet0/2.22    172.22.0.1      YES manual  up                  up
Serial0/3/0              192.168.12.1    YES manual  up                  up
Serial0/3/1              unassigned      YES unset  administratively down down
Vlan1                    unassigned      YES unset  administratively down down
GW1#
```

### **GW1 Routing Table**

```

      172.11.0.0/16 is variably subnetted, 2 subnets, 2 masks
C       172.11.0.0/16 is directly connected, GigabitEthernet0/2.11
L       172.11.0.1/32 is directly connected, GigabitEthernet0/2.11
      172.22.0.0/16 is variably subnetted, 2 subnets, 2 masks
C       172.22.0.0/16 is directly connected, GigabitEthernet0/2.22
L       172.22.0.1/32 is directly connected, GigabitEthernet0/2.22
      192.168.12.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.12.0/24 is directly connected, Serial0/3/0
L       192.168.12.1/32 is directly connected, Serial0/3/0
S       200.100.50.0/24 is directly connected, Serial0/3/0
GW1#
```

## GW2 Interface Table

```
GW2#sh ip int br
Interface      IP-Address      OK? Method Status
Protocol
GigabitEthernet0/0  200.100.50.1    YES manual up
GigabitEthernet0/1  unassigned      YES unset  administratively down down
GigabitEthernet0/2  unassigned      YES unset  administratively down down
Serial0/1/0        192.168.12.2    YES manual up
Serial0/1/1        unassigned      YES unset  administratively down down
Vlan1             unassigned      YES unset  administratively down down
GW2#
```

## GW2 Routing Table

```

      192.168.12.0/24 is variably subnetted, 2 subnets, 2 masks
C      192.168.12.0/24 is directly connected, Serial0/1/0
L      192.168.12.2/32 is directly connected, Serial0/1/0
      200.100.50.0/24 is variably subnetted, 2 subnets, 2 masks
C      200.100.50.0/24 is directly connected, GigabitEthernet0/0
L      200.100.50.1/32 is directly connected, GigabitEthernet0/0
S*    0.0.0.0/0 is directly connected, Serial0/1/0
GW2#
```

## Switch Configuration

### SW1 VLAN Configuration

```
SW1#sh vlan br
```

VLAN	Name	Status	Ports
1	default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/7, Fa0/8, Fa0/9 Fa0/10, Fa0/11, Fa0/12, Fa0/13 Fa0/14, Fa0/15, Fa0/16, Fa0/17 Fa0/19, Fa0/20, Fa0/21, Fa0/22 Fa0/23, Fa0/24, Gig0/1
11	VLAN0011	active	Fa0/18
22	VLAN0022	active	Fa0/6
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

```
SW1#
```

### SW1 Trunk Configuration

```
SW1#sh int trunk
```

Port	Mode	Encapsulation	Status	Native vlan
Gig0/2	on	802.1q	trunking	1

Port	Vlans allowed on trunk
Gig0/2	1-1005

Port	Vlans allowed and active in management domain
Gig0/2	1,11,22

Port	Vlans in spanning tree forwarding state and not pruned
Gig0/2	1,11,22

```
SW1#
```

## SW2 VLAN Configuration

```
SW2#sh vlan br
```

VLAN	Name	Status	Ports
1	default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/7, Fa0/8, Fa0/9 Fa0/10, Fa0/11, Fa0/12, Fa0/13 Fa0/14, Fa0/15, Fa0/16, Fa0/17 Fa0/19, Fa0/20, Fa0/21, Fa0/22 Fa0/23, Fa0/24
11	VLAN0011	active	Fa0/18
22	VLAN0022	active	Fa0/6
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

```
SW2#
```

## SW2 Trunk Configuration

```
SW2#sh int trunk
```

Port	Mode	Encapsulation	Status	Native vlan
Gig0/1	on	802.1q	trunking	1
Gig0/2	on	802.1q	trunking	1

Port	Vlans allowed on trunk
Gig0/1	1-1005
Gig0/2	1-1005

Port	Vlans allowed and active in management domain
Gig0/1	1,11,22
Gig0/2	1,11,22

Port	Vlans in spanning tree forwarding state and not pruned
Gig0/1	1,11,22
Gig0/2	1,11,22

```
SW2#
```

## **Tasks**

1. Draw the routers. **[1 points]**
2. Draw the switches. **[1 points]**
3. Connect router and switch interfaces. **[4 points]**
4. Configure router IP addresses and sub-interfaces. **[6 points]**
5. Configure static routes on both routers. **[2 points]**
6. Configure switch trunk ports. **[2 points]**
7. Configure switch port VLAN memberships. **[4 points]**