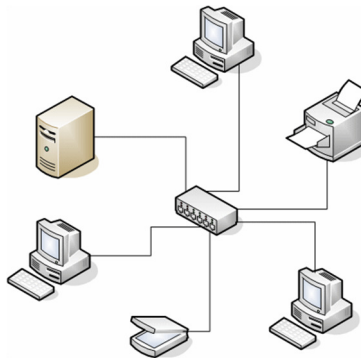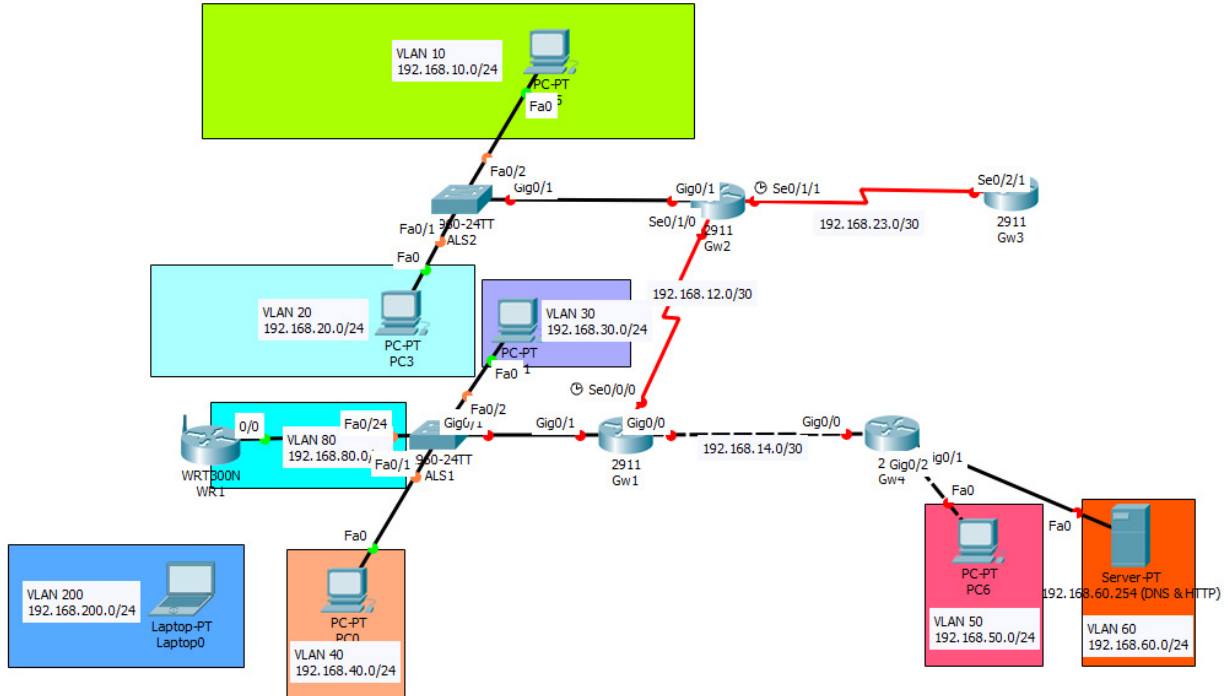# American University of Sharjah

COE 371L
Lab Final Exam
Fall 2018
Section 1

Name   :_____
ID   :_____

Topology:

Address Table

Device	Interface	IP Address	Mask	Gateway
Gw1	Serial 0/0/0	192.168.12.1	255.255.255.252	N/A
	GigabitEthernet 0/0	192.168.14.1	255.255.255.252	
	GigabitEthernet 0/1	192.168.30.1 192.168.40.1 192.168.80.1	255.255.255.0	N/A
Gw2	GigabitEthernet 0/1	192.168.10.1 192.168.20.1	255.255.255.0	N/A
	Serial 0/1/0	192.168.12.2	255.255.255.252	N/A
	Serial 0/1/1	192.168.23.2	255.255.255.252	N/A
Gw3	Serial 0/2/1	192.168.23.3	255.255.255.252	N/A
Gw4	GigabitEthernet 0/0	192.168.14.2	255.255.255.252	N/A
	GigabitEthernet 0/1	192.168.60.1	255.255.255.0	N/A
	GigabitEthernet 0/2	192.168.50.1	255.255.255.0	N/A

<u>Tasks:</u>

<u>Basic Router Configuration</u> **[10 points]**

1. Configure Hostnames
2. Configure all router interface and sub-interfaces IP addresses.
   [clock rate = 128000 bps]
3. Configure RIPv2 routing on all routers.

💬 Test connectivity between routers (should be successful)

<u>VLANs and Trunks</u> **[5 point]**

4. Configure VLANs and trunks where needed and map the correct
   switch ports to the appropriate VLANs.

<u>Wireless</u> **[5 points]**

5. Use the below settings to connect the wireless laptop to the
   network.

```
Internet:       192.168.80.0/30 (DHCP)
LAN:            192.168.200.0/24
SSID:           COE_371L
Channel:        11
Authentication: WPA2-PSK (PSK passphrase is 1234567890)
```