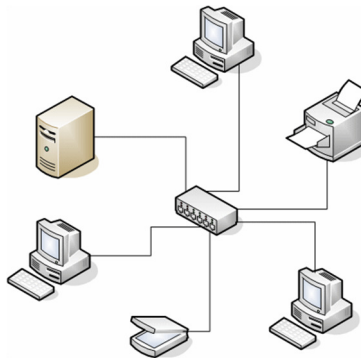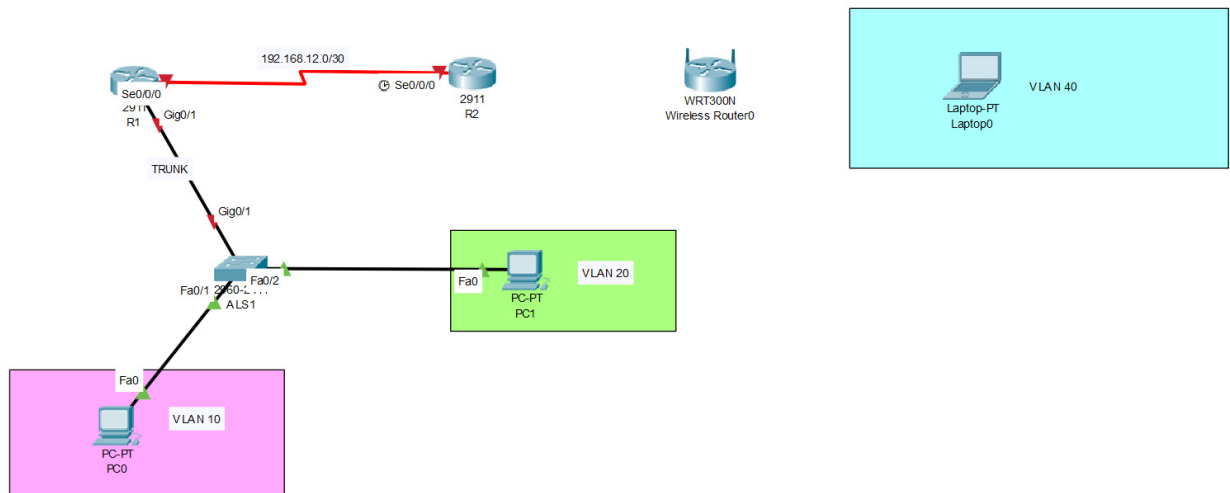# American University of Sharjah

COE 371L
Lab Final Exam
Fall 2018
Section 2

Name   :_____
ID   :_____

Topology:

Address Table

Device	Interface	IP Address	Mask	Gateway
R1	Serial 0/0/0	192.168.12.1	255.255.255.252	N/A
	GigabitEthernet 0/1	192.168.10.1 192.168.20.1	255.255.255.0	N/A
R2	GigabitEthernet 0/1	192.168.80.1	255.255.255.0	N/A
	Serial 0/0/0	192.168.12.2	255.255.255.252	N/A

Tasks:

Basic Router Configuration [5 points]

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

💬 Test connectivity between routers (should be successful)

VLANs and Trunks [5 points]

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

Wireless [5 points]

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

Internet: 192.168.**80**.25/24 (Connect to R2 Gi0/1)
LAN: 192.168.**40**.1/24
SSID: COE_371L
Channel: 11
Authentication: WPA2-PSK (PSK passphrase is **1234567890**)

Add a New Switch [5 points]

6. Connect a new switch ALS2 to ALS1. ALS2 has three PCs connected belonging to VLANs 10, 20 and 99.
7. Implement all needed configurations (i.e. VLANs, Trunking, routing, etc.) to allow all PCs on ALS2 to communicate with the rest of the network.