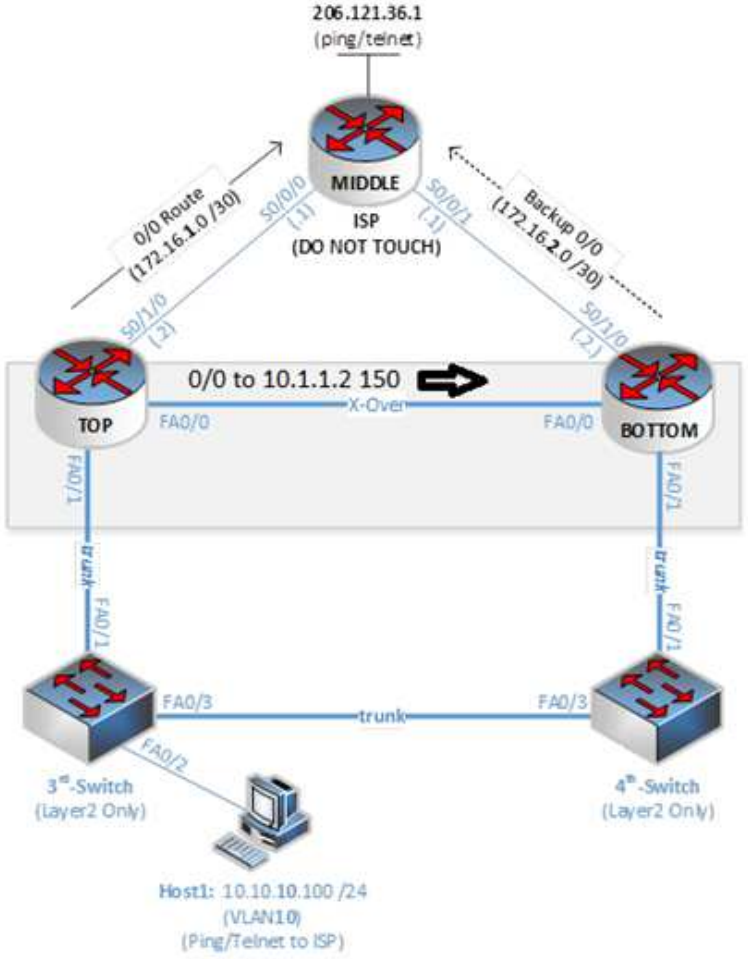
Name: _____

Date: **5/16/18 or 5/23/18**

POD#: **1 2 3 4 5 6 7 8**

CNIT 202 - Student Hands-on Exam



Exam Objectives:

- Configure Inter-VLAN Routing on both the TOP and BOTTOM Routers
- Configure RIPv2 between the TOP and BOTTOM Routers to advertise all LANs
- Configure the 3rd & 4th switches as Layer2 switches ONLY with VLAN10 and VLAN20
- Configure a trunk link between the 3rd & 4th switches
- Configure a trunk link between the Layer2 switches and the Top/Bottom Routers
- Configure a default-route between the TOP router and the ISP
- Configure a second default-route between the BOTTOM router and the ISP
- Configure a Host on VLAN**10** with the IP: 10.10.**10**.100 /24 with a gateway of 10.10.**10**.1
- Extra points for setting-up DHCP on the TOP router for the host on VLAN10

Device IP Info:

Device	Interface and IP Addresses	Notes:
TOP Router (2801)	S0/1/0 – 172.16.1.2 /30 →To ISP1 Fa0/0 – 10.1.1.1 /30 Fa0/1 – < DOT1q Trunk NO IP > Fa0/1.1 – 10.10.99.1 /24 Fa0/1.10 – 10.10.10.1 /24	Make sure to advertise the Fa0/0 and the FA0/1 interfaces within RIPv2. Also make sure to advertise the sub-interface networks.
BOTTOM Router (2801)	S0/1/0 – 172.16.2.2 /30 →To ISP2 Fa0/0 – 10.1.1.2 /30 Fa0/1 – < DOT1q Trunk NO IP > Fa0/1.1 – 10.10.99.2 /24 Fa0/1.20 – 10.10.20.1 /24	Make sure to advertise the Fa0/0 and the FA0/1 interfaces within RIPv2. Also make sure to advertise the sub-interface networks.
3rd Switch (29XX)	Interface VLAN1 – 10.10.99.3 /24	Add an IP-default gateway to 10.10.99.1
4th Switch (29XX)	Interface VLAN1 – 10.10.99.4 /24	Add an IP-default gateway to 10.10.99.2
Host1-VLAN10	Host-IP: 10.10.10.100 /24, VLAN10, Gateway 10.10.10.1 should be on Router TOP	

Check List:

- ☐ Inter-VLAN routing working on TOP Router for VLAN1 and VLAN10
- ☐ Inter-VLAN routing working on BOTTOM Router for VLAN1 and VLAN20
- ☐ VLAN1, 10, and VLAN20 were added to the VLAN databases of both Layer2 switches
- ☐ All DOT1q Trunks are working properly and passing VLAN1, VLAN10, and VLAN20
- ☐ RIPv2 is working between the TOP/BOTTOM Routers and they're advertising the LAN links
- ☐ Static default-route working between Router TOP and the ISP on link S0/1/0
- ☐ Static default-route working between Router BOTTOM and the ISP on link S0/1/0
- ☐ HOST can ping and Telnet to the ISP IP address at 206.121.36.1
- ☐ All Routers/Switches can be pinged and are accessible via Telnet
- ☐ ** Extra Points ** DHCP working between Router TOP and HOST1 for the 10.10.10.0 /24 network

PASS **NOT PASSED**