

**ENCS 413: COMPUTER NETWORKS LABORATORY**

**Practical Final Exam (60 minutes)**

**Date:** 07/08/2016

**Time:** 15:30 – 16:30

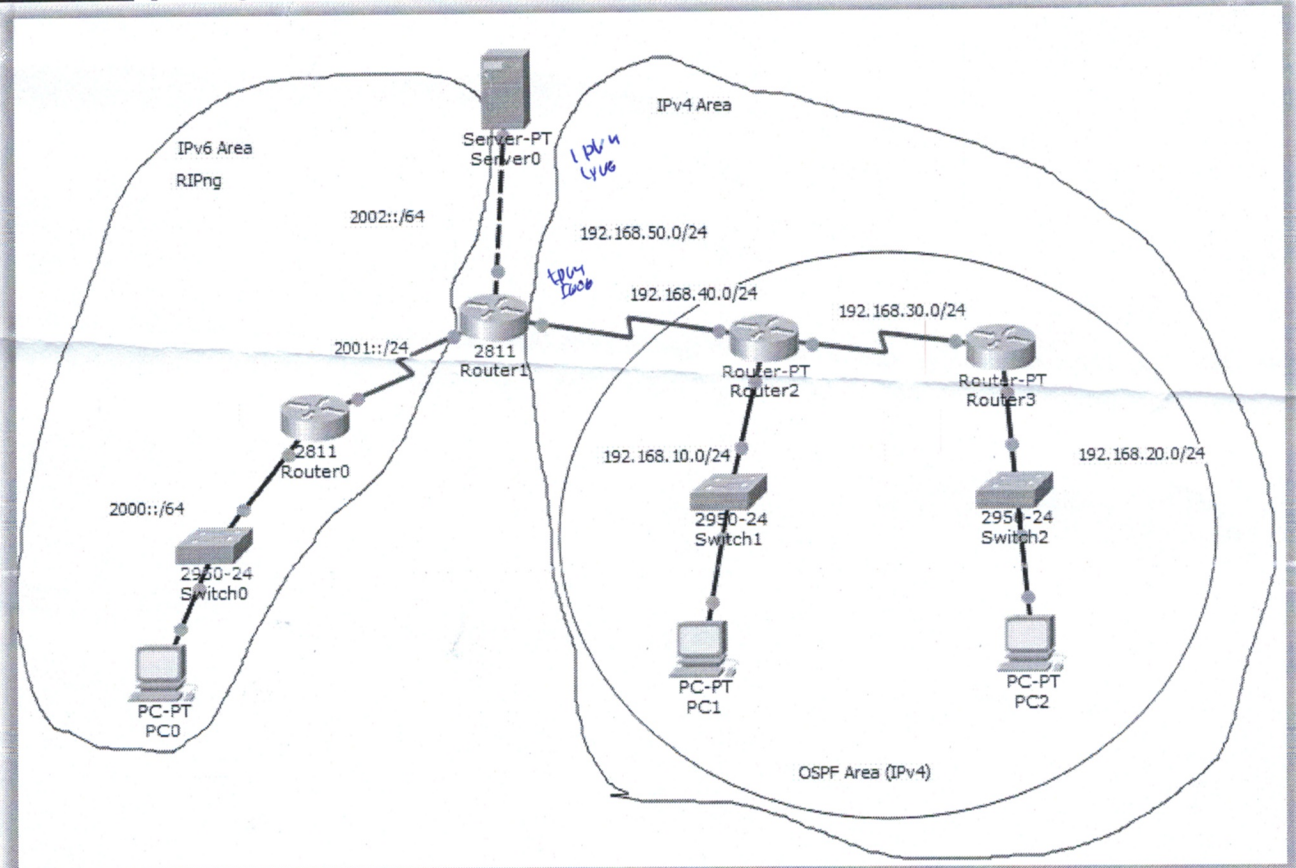
**Name:** \_\_\_\_\_

**ID:** \_\_\_\_\_

Notes:

- You are, only, allowed to use Command Line Interface (CLI).
- Shutdown your phones
- Hand-in this paper when you finish the exam

**Question 1: [Routing (IPv4 and IPv6)] (12 points)**



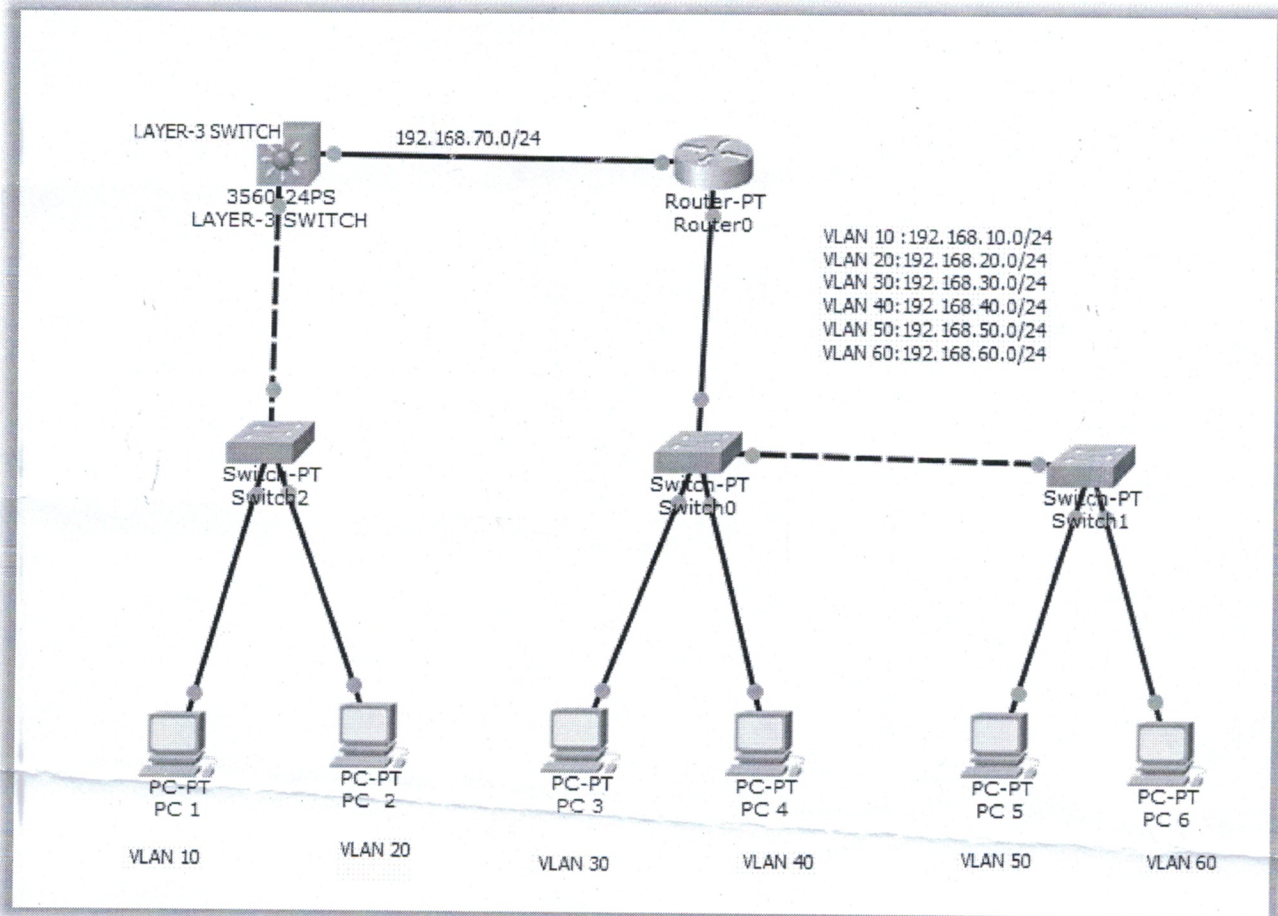
Connect the topology above, take into consideration:

1. The Communication inside the area labeled OSPF should be using OSPF routing protocol
2. The PCs inside the IPv4 area should be able to access the server using static routing
3. The Communication inside the IPv6 Area should be using RIPng and the PCs should be able to access the server
4. Use Router 2811 in the IPv6 area
5. An interface might have two IPs, one is IPv4 and the other is IPv6.

Here is the Criteria

IP assignment	<b>3 pts</b>
OSPF	<b>3 pts</b>
RIPng	<b>3 pts</b>
Static Routing	<b>3 pts</b>

**Question 2: [VLANs and ACLs] (13 points)**



1. Connect the above topology and assign the IPs and the VLANs in a proper way. [5 pts]
2. Use the RIP as the routing protocol. [3 pts]
3. Enable the telnet on the router. [1 pt]
4. Use standard ACL to deny VLAN 30 from Accessing VLAN 10. [2 pts]
5. Deny PC-3 from accessing the telnet on the router [2 pts]