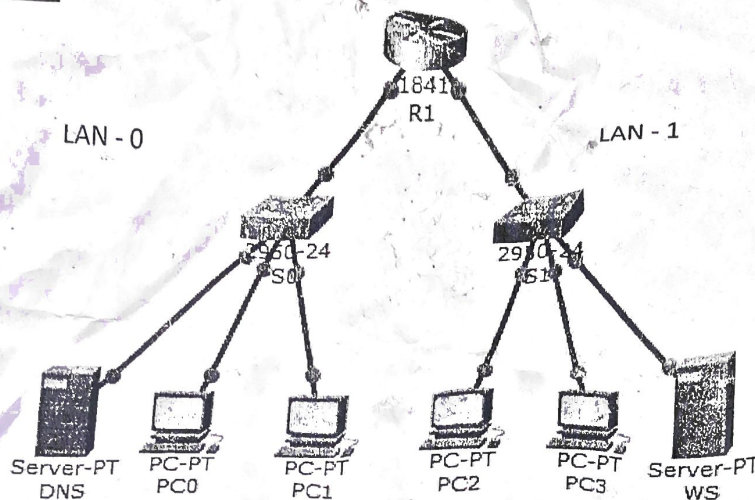Name: MD.WASIF
        MUSTAHID

Reg. No.: 2016831037

CSE324/CSE396 Lab Final Examination (Practice)
Full Marks: 100   Time: 1 hour

LAN - 0   LAN - 1

1841
R1

2950-24   2950-24
S0   S1

Server-PT   PC-PT   PC-PT   PC-PT   PC-PT   Server-PT
DNS   PC0   PC1   PC2   PC3   WS

You are given the network address of 192.168.40.0/21 to subnet and to provide the IP addresses to the hosts of the network shown in the above topology.

The examination has two parts: Part1 and Part 2.

Part 1: Design an IP addressing scheme (Marks: 20)

Calculate and write the following values:

Subnet	Subnet Address	First Usable Host Address	Last Usable Host Address	Broadcast Address
0	192.168.40.0	192.168.40.1	192.168.43.254	192.168.43.255
1	192.168.44.0	192.168.44.1	192.168.47.254	192.168.47.255

New Subnet Mask:

Binary	11111111 . 11111111 . 11111100 . 00000000
Decimal	255 . 255 . 252 . 0

Part 2: Design the topology in packet tracer, assign IP addresses to network devices and verify Connectivity (Marks: 80)

- Assign Subnet 0 to the LAN 0 and Subnet 1 to the LAN 1
- Assign the first usable IP addresses to R1's two LAN interfaces
- Assign the next two usable IP addresses to PCs
- Assign the last usable IP addresses to Servers
- Configure DNS, Web and DHCP servers.