

Metropolitan University
Department of Computer Science & Engineering
Program: B.Sc. in CSE Batch: 57F+G
Course Title: Computer Networks Lab
Course Code: CSE312

Time: 60 Mins

Total Marks: 40

Lab Final

Addressing Table,

Device	Interface	IPv4 Address	Subnet Mask	Default Gateway
R1	F2/0	192.168.16.3	255.255.255.248	N/A
	S0/0	192.168.16.25	255.255.255.252	N/A
R2	F2/0	192.168.16.11	255.255.255.248	N/A
	S0/0	192.168.16.29	255.255.255.252	N/A
R3	S0/0	192.168.16.26	255.255.255.252	N/A
	S1/0	192.168.16.30	255.255.255.252	N/A
	S2/0	192.168.16.33	255.255.255.252	N/A
R4	S0/0	192.168.16.34	255.255.255.252	N/A
	F2/0	192.168.16.19	255.255.255.248	N/A
PC1	NIC	192.168.16.1	255.255.255.248	192.168.16.3
PC2	NIC	192.168.16.2	255.255.255.248	192.168.16.3
PC3	NIC	192.168.16.9	255.255.255.248	192.168.16.11
PC4	NIC	192.168.16.10	255.255.255.248	192.168.16.11
PC5	NIC	192.168.16.17	255.255.255.248	192.168.16.19
PC6	NIC	192.168.16.18	255.255.255.248	192.168.16.19

1. Configure IP Addressing on the Host PCs. 05
2. Assign the specified IP address to every interface on all three routers. 15
3. Configure static routing without using default routes on all four routers. 15
4. Verify full network connectivity by using the ping command between each host PC across different networks. 05