

**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

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Lab Final

Addressing Table,

<b>Device</b>	<b>Interface</b>	<b>IPv4 Address</b>	<b>Subnet Mask</b>	<b>Default Gateway</b>
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

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