

COMPUTER NETWORKS

LAB

MID TERM EXAM

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Question # 01:

Sr.No	IP Address	Class	Usage	Type	Status
1.	197.147.97.47	C	Public	Valid	Not Reserved
2.	194.144.94.44	C	Public	Valid	Not Reserved
3.	191.141.91.41	C	Public	Valid	Not Reserved
4.	188.138.88.38	B	Public	Valid	Not Reserved
5.	185.135.85.35	B	Public	Valid	Not Reserved

Question # 02:

```
C:\>mkdir networkexam200997
```

```
C:\>net share networkexamshare200997=c:\networkexam200997 /grant:everyone,CHANGE /user:27
networkexamshare200997 was shared successfully.
```

```
C:\>net share
```

Share name	Resource	Remark
C\$	C:\	Default share
D\$	D:\	Default share
IPC\$		Remote IPC
ADMIN\$	C:\Windows	Remote Admin
networkexamshare200997	c:\networkexam200997	

The command completed successfully.

```
C:\>net share networkexamshare200997
```

Share name	networkexamshare200997
Path	c:\networkexam200997
Remark	
Maximum users	27
Users	
Caching	Manual caching of documents
Permission	Everyone, CHANGE

The command completed successfully.

Question # 03:

Task # 01:

```

C:\Windows\system32>route print
=====
Interface List
  9...c8 f7 50 f4 b7 31 .....Realtek PCIe GbE Family Controller
  5...00 50 56 c0 00 01 .....VMware Virtual Ethernet Adapter for VMnet1
 11...00 50 56 c0 00 08 .....VMware Virtual Ethernet Adapter for VMnet8
 1.....Software Loopback Interface 1
=====

IPv4 Route Table
=====
Active Routes:
Network Destination        Netmask          Gateway          Interface        Metric
0.0.0.0                    0.0.0.0          172.30.0.196     172.30.12.21     281
127.0.0.0                  255.0.0.0        On-link          127.0.0.1        331
127.0.0.1                  255.255.255.255  On-link          127.0.0.1        331
127.255.255.255            255.255.255.255  On-link          127.0.0.1        331
172.30.0.0                  255.255.0.0      On-link          172.30.12.21     281
172.30.12.21                255.255.255.255  On-link          172.30.12.21     281
172.30.255.255              255.255.255.255  On-link          172.30.12.21     281
192.168.27.0                255.255.255.0    On-link          192.168.27.1     291
192.168.27.1                255.255.255.255  On-link          192.168.27.1     291
192.168.27.255              255.255.255.255  On-link          192.168.27.1     291
192.168.73.0                255.255.255.0    On-link          192.168.73.1     291
192.168.73.1                255.255.255.255  On-link          192.168.73.1     291
192.168.73.255              255.255.255.255  On-link          192.168.73.1     291
224.0.0.0                   240.0.0.0        On-link          127.0.0.1        331
224.0.0.0                   240.0.0.0        On-link          192.168.27.1     291
224.0.0.0                   240.0.0.0        On-link          192.168.73.1     291
224.0.0.0                   240.0.0.0        On-link          172.30.12.21     281
255.255.255.255             255.255.255.255  On-link          127.0.0.1        331
255.255.255.255             255.255.255.255  On-link          192.168.27.1     291
255.255.255.255             255.255.255.255  On-link          192.168.73.1     291
255.255.255.255             255.255.255.255  On-link          172.30.12.21     281
=====

```

```

C:\Windows\system32>route add 148.66.137.120 172.30.0.196 metric 100
OK!

C:\Windows\system32>route print
=====

```

```

IPv4 Route Table
=====
Active Routes:
Network Destination        Netmask          Gateway          Interface        Metric
0.0.0.0                    0.0.0.0          172.30.0.196     172.30.12.21     281
127.0.0.0                  255.0.0.0        On-link          127.0.0.1        331
127.0.0.1                  255.255.255.255  On-link          127.0.0.1        331
127.255.255.255            255.255.255.255  On-link          127.0.0.1        331
148.66.137.120             255.255.255.255  172.30.0.196     172.30.12.21     125
172.30.0.0                 255.255.0.0      On-link          172.30.12.21     281
172.30.12.21               255.255.255.255  On-link          172.30.12.21     281
172.30.255.255             255.255.255.255  On-link          172.30.12.21     281
192.168.27.0               255.255.255.0    On-link          192.168.27.1     291
192.168.27.1               255.255.255.255  On-link          192.168.27.1     291
192.168.27.255             255.255.255.255  On-link          192.168.27.1     291
192.168.73.0               255.255.255.0    On-link          192.168.73.1     291
192.168.73.1               255.255.255.255  On-link          192.168.73.1     291
192.168.73.255             255.255.255.255  On-link          192.168.73.1     291
224.0.0.0                  240.0.0.0        On-link          127.0.0.1        331
224.0.0.0                  240.0.0.0        On-link          192.168.27.1     291
224.0.0.0                  240.0.0.0        On-link          192.168.73.1     291
224.0.0.0                  240.0.0.0        On-link          172.30.12.21     281
255.255.255.255            255.255.255.255  On-link          127.0.0.1        331
255.255.255.255            255.255.255.255  On-link          192.168.27.1     291
255.255.255.255            255.255.255.255  On-link          192.168.73.1     291
255.255.255.255            255.255.255.255  On-link          172.30.12.21     281
=====
Persistent Routes:
Network Address            Netmask  Gateway Address  Metric
0.0.0.0                    0.0.0.0   172.30.0.196     Default
=====

```

Question # 03:

Task # 02:

```
C:\Windows\system32>netsh interface ip show config
```

Configuration for interface "Ethernet"

```
DHCP enabled:           No
IP Address:             172.30.12.21
Subnet Prefix:          172.30.0.0/16 (mask 255.255.0.0)
Default Gateway:       172.30.0.196
Gateway Metric:        256
InterfaceMetric:       25
Statically Configured DNS Servers: 172.30.0.201
                             172.30.0.196
Register with which suffix: Primary only
Statically Configured WINS Servers: None
```

Configuration for interface "VMware Network Adapter VMnet1"

```
DHCP enabled:           No
IP Address:             192.168.27.1
Subnet Prefix:          192.168.27.0/24 (mask 255.255.255.0)
InterfaceMetric:       35
Statically Configured DNS Servers: None
Register with which suffix: Primary only
Statically Configured WINS Servers: None
```

Configuration for interface "VMware Network Adapter VMnet8"

```
DHCP enabled:           No
IP Address:             192.168.73.1
Subnet Prefix:          192.168.73.0/24 (mask 255.255.255.0)
InterfaceMetric:       35
Statically Configured DNS Servers: None
Register with which suffix: Primary only
Statically Configured WINS Servers: None
```

Configuration for interface "Loopback Pseudo-Interface 1"

```
DHCP enabled:           No
IP Address:             127.0.0.1
Subnet Prefix:          127.0.0.0/8 (mask 255.0.0.0)
InterfaceMetric:       75
Statically Configured DNS Servers: None
Register with which suffix: Primary only
Statically Configured WINS Servers: None
```

```
C:\Windows\system32>netsh interface ip show tcpconnections
```

MIB-II TCP Connection Entry

Local Address	Local Port	Remote Address	Remote Port	State
0.0.0.0	135	0.0.0.0	0	Listen
172.30.12.21	139	0.0.0.0	0	Listen
192.168.27.1	139	0.0.0.0	0	Listen
192.168.73.1	139	0.0.0.0	0	Listen
0.0.0.0	443	0.0.0.0	0	Listen
0.0.0.0	903	0.0.0.0	0	Listen
0.0.0.0	913	0.0.0.0	0	Listen
0.0.0.0	1158	0.0.0.0	0	Listen
127.0.0.1	1521	127.0.0.1	49678	Established
127.0.0.1	1521	0.0.0.0	0	Listen
0.0.0.0	3389	0.0.0.0	0	Listen
0.0.0.0	5040	0.0.0.0	0	Listen
0.0.0.0	5520	0.0.0.0	0	Listen
127.0.0.1	8307	0.0.0.0	0	Listen
0.0.0.0	8834	0.0.0.0	0	Listen
127.0.0.1	49152	0.0.0.0	0	Listen
0.0.0.0	49664	0.0.0.0	0	Listen
0.0.0.0	49665	0.0.0.0	0	Listen
0.0.0.0	49666	0.0.0.0	0	Listen
0.0.0.0	49667	0.0.0.0	0	Listen
0.0.0.0	49668	0.0.0.0	0	Listen
0.0.0.0	49669	0.0.0.0	0	Listen
0.0.0.0	49670	0.0.0.0	0	Listen
127.0.0.1	49672	0.0.0.0	0	Listen
127.0.0.1	49678	127.0.0.1	1521	Established
0.0.0.0	49679	0.0.0.0	0	Listen
127.0.0.1	49682	127.0.0.1	49683	Established
127.0.0.1	49683	127.0.0.1	49682	Established
127.0.0.1	49706	127.0.0.1	49707	Established
127.0.0.1	49707	127.0.0.1	49706	Established
127.0.0.1	49714	127.0.0.1	49715	Established
127.0.0.1	49715	127.0.0.1	49714	Established
172.30.12.21	52135	172.30.0.202	445	Established
172.30.12.21	52160	150.109.171.71	800	Established
172.30.12.21	52161	150.109.171.71	800	Established
172.30.12.21	52162	20.197.71.89	443	Established
172.30.12.21	52163	20.197.71.89	443	Established
172.30.12.21	52166	142.250.185.46	443	Established
172.30.12.21	52169	34.80.0.147	443	Established

```
C:\Windows\system32>netsh interface ip show udpconnections
```

```
MIB-II UDP Listener Entry
```

```
Local Address
```

```
LocalPort
```

Local Address	LocalPort
0.0.0.0	123
172.30.12.21	137
192.168.27.1	137
192.168.73.1	137
172.30.12.21	138
192.168.27.1	138
192.168.73.1	138
0.0.0.0	500
127.0.0.1	1900
172.30.12.21	1900
192.168.27.1	1900
192.168.73.1	1900
0.0.0.0	3389
0.0.0.0	4500
0.0.0.0	5050
0.0.0.0	5353
0.0.0.0	5353
0.0.0.0	5353
0.0.0.0	5353
0.0.0.0	5353
0.0.0.0	5355
172.30.12.21	52199
127.0.0.1	54090
0.0.0.0	54353
0.0.0.0	55663
0.0.0.0	56483
127.0.0.1	62558
172.30.12.21	63504
192.168.27.1	63505
192.168.73.1	63506
127.0.0.1	63507
0.0.0.0	5353
0.0.0.0	5353
0.0.0.0	5353

```
C:\>netsh dump > Connections.txt
```