## **Mid Term**

# **Computer Networks**

#### **Question No.1**

- 1. 1\*200970 % 200 = 170. 1\*200970 % 200=170. 1\*200970 % 100=70. 1\*200970 % 100=70. 1\*200970 % 100=70. 170.170.70.70
- 2. 2\*200970 % 200=140. 2\*200970 % 200=140. 2\*200970 % 100=40. 2\*200970 % 100=40 **140.140.40.40**
- 3. 3\*200970 % 200=110. 3\*200970 % 200=110. 3\*200970 % 100=10. 3\*200970 % 100=10 **110.110.10.10**
- 4. 4\*200970 % 200=80. 4\*200970 % 200=80. 4\*200970 % 100=80. 4\*200970 % 100=80 **80.80.80**.80
- 5. 5\*200970 % 200=50. 5\*200970 % 200=50. 5\*200970 % 100=50. 5\*200970 % 100=50. **50.50.50.50**

IP	CLASS	PUBLIC/PRIVATE	VALID	RESERVED
170.170.70.70	В	PRIVATE	VALID	Not-reserved
140.140.40.40	В	PRIVATE	VALID	Not-reserved
110.110.10.10	A	PRIVATE	VALID	Not-reserved
80.80.80.80	A	PRIVATE	VALID	Not-reserved
50.50.50.50	A	PRIVATE	VALID	Not-reserved

## **Question No.2**

## **Creating New User**

Administrator: Command Prompt



## **Assigning Time to New User**

C:\>net user examadnan200970 /time:M-F,11:00-17:00
The command completed successfully.

C:\>

## **Creating new Local Group**

C:\>net localgroup examlocalgroup200970 /add
The command completed successfully.
C:\>\_

# Adding User to newly created local group

C:\>net localgroup examlocalgroup200970 examadnan200970 /add
The command completed successfully.

## **Displaying User Information**

#### Administrator: Command Prompt

```
C:\>net user examadnan200970
User name
Full Name
                                                             examadnan200970
Comment
User's comment
Country/region code
Account active
Account expires
                                                             000 (System Default)
                                                              Yes
                                                             [ 11/[ 2/[ 2021 9:24:53 AM
[ 12/[ 14/[ 2021 9:24:53 AM
[ 11/[ 2/[ 2021 9:24:53 AM
Yes
Password last set
Password expires
Password changeable
Password required
User may change password
Workstations allowed
Logon script
User profile
Home directory
Last logon
                                                             Never
Logon hours allowed
                                                             Monday 11:00:00 AM - 5:00:00 PM
                                                             Tuesday 11:00:00 AM - 5:00:00 PM
Wednesday 11:00:00 AM - 5:00:00 PM
Thursday 11:00:00 AM - 5:00:00 PM
Friday 11:00:00 AM - 5:00:00 PM
Local Group Memberships *examl
Global Group memberships *None
The command completed successfully.
                                                             *examlocalgroup200970 *Users
C:\>_
```

#### **Question No.3**

# **Printing Routing Table**

## **Displaying Gateway Address**

#### **Adding route**

## ✓ <u>Task 2</u>

#### **NETSH**

# **Information about Network IP configuration**

```
C:\>netsh interface ip show config
 onfiguration for interface "Ethernet"
DHCP enabled:
                                                                           NO
172.30.12.19
172.30.0.0/16 (mask 255.255.0.0)
172.30.0.196
256
     IP Address:
Subnet Prefix:
     Default Gateway:
Gateway Metric:
                                                                           25
172.30.0.201
172.30.0.196
Primary only
      Statically Configured DNS Servers:
     Register with which suffix:
Statically Configured WINS Servers:
  onfiguration for interface "VMware Network Adapter VMnet1"
     DHCP enabled:
IP Address:
                                                                           No
192.168.36.1
192.168.36.0/24 (mask 255.255.255.0)
     IP Address:
Subnet Prefix:
InterfaceMetric:
Statically Configured DNS Servers:
Register with Which suffix:
Statically Configured WINS Servers:
                                                                           Primary only
 onfiguration for interface "VMware Network Adapter VMnet8"
DHCP enabled:
IP Address:
Subnet Prefix:
InterfaceMetric:
Statically Configurat PMC Communications
192.168.8.0/24 (m.
                                                                           192.168.8.0/24 (mask 255.255.255.0)
35
     Statically Configured DNS Servers:
Register with which suffix:
Statically Configured WINS Servers:
   nfiguration for interface "Loopback Pseudo-Interface 1"
DHCP enabled: No
                                                                           No
127.0.0.1
127.0.0.0/8 (mask 255.0.0.0)
     IP Address:
Subnet Prefix:
      InterfaceMetric:
     Register with which suffix:
Statically Configured DNS Servers:
Retatically Configured WINS Servers:
                                                                           None
Primary only
```

## **Information about all TCP Connections**

```
127.0.0.1
                       49676
                                            127.0.0.1
                                                                       Established
      127.0.0.1
                                            127.0.0.1
                                                                       Established
                      49677
                                                              49678
      127.0.0.1
127.0.0.1
                      49678
                                            127.0.0.1
                                                              49677
                                                                       Established
                       49679
                                            127.0.0.1
                                                                       Established
       127.0.0.1
                       49680
                                            127.0.0.1
                                                                       Established
                                            0.0.0.0
0.0.0.0
127.0.0.1
127.0.0.1
0.0.0.0
         0.0.0.0
                       49681
                                                                      Listen
Established
      0.0.0.0
127.0.0.1
                       49701
                                                                   A
                      49706
                                                              49707
                                                                      Established
      127.0.0.1
0.0.0.0
                       49707
                                                              49706
                                                                            Listen
                        445
         0.0.0.0
                       3306
                                              0.0.0.0
                                                                             Listen
         0.0.0.0
                       7680
                                              0.0.0.0
         0.0.0.0
                       33060
                                              0.0.0.0
         0.0.0.0
                       49675
                                              0.0.0.0
C:\>_
```

#### **Information about all UDP Connections**

Administrator: Command Prompt

```
C:\>netsh interface ip show udpconnections
MIB-II UDP Listener Entry
  Local Address
                               LocalPort
        0.0.0.0
                                  123
   172.30.12.19
    192.168.8.1
                                  137
    192.168.36.1
                                  137
    172.30.12.19
                                  138
    192.168.8.1
                                  138
    192.168.36.1
                                  138
        0.0.0.0
                                  500
                                 1900
      127.0.0.1
    172.30.12.19
                                 1900
    192.168.8.1
                                 1900
    192.168.36.1
                                 1900
        0.0.0.0
                                 3389
        0.0.0.0
                                 4500
        0.0.0.0
                                 5050
        0.0.0.0
        0.0.0.0
        0.0.0.0
                                 5353
        0.0.0.0
                                 5355
        0.0.0.0
    172.30.12.19
                                49946
    192.168.36.1
                                49947
    192.168.8.1
                                49948
       127.0.0.1
                                49949
    172.30.12.19
                                52887
        0.0.0.0
                                54458
        0.0.0.0
                                57132
      127.0.0.1
                                61055
      127.0.0.1
                                61058
         0.0.0.0
                                62358
       127.0.0.1
                                63258
        0.0.0.0
                                63260
        0.0.0.0
         0.0.0.0
        0.0.0.0
                                 5353
```