Polytechnic University of the Philippines

Taguig Branch

Data Communications and Networking

DICT

Activity No. 2

1. Complete the table with the required information.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **IP address** | **Subnet Mask** | **Default Gateway IP** | **Broadcast IP** | **Network IP** | **# of Hosts** |
| 10.10.10.21/24 | 255.255.255.0 | 10.10.10.254 | 10.10.10.255 | 10.10.10.0 | 254 |
| 172.16.77.15/29 | 255.255.255.248 | 172.16.77.14 | 172.16.77.15 | 172.16.77.8 | 6 |
| 192.178.23.14/28 | 255.255.255.240 | 192.178.23.14 | 192.178.23.15 | 192.178.23.0 | 14 |
| 15.15.21.19/16 | 255.255.0.0 | 15.15.255.254 | 15.15.255.255 | 15.15.0.0 | 65,534 |
| 25.25.25.51/30 | 255.255.255.252 | 25.25.25.50 | 25.25.25.51 | 25.25.25.48 | 2 |
| 100.180.0.1/27 | 255.255.255.224 | 100.180.0.30 | 100.180.0.31 | 100.180.0.0 | 30 |
| 20.20.20.18/25 | 255.255.255.128 | 20.20.20.126 | 20.20.20.127 | 20.20.20.0 | 126 |
| 30.30.30.10/26 | 255.255.255.192 | 30.30.30.62 | 30.30.30.63 | 30.30.30.0 | 62 |
| 23.37.50.0/23 | 255.255.254.0 | 23.37.51.254 | 23.37.51.255 | 23.37.50.0 | 510 |
| 112.198.10.11/24 | 255.255.255.0 | 112.198.10.254 | 112.198.10.255 | 112.198.10.0 | 254 |
| 203.177.25.24/27 | 255.255.255.224 | 203.177.25.30 | 203.177.25.31 | 203.177.25.0 | 30 |
| 172.16.11.41/26 | 255.255.255.192 | 172.16.11.62 | 172.16.11.63 | 172.16.11.0 | 62 |
| 192.168.23.69/28 | 255.255.255.240 | 192.168.23.78 | 192.168.23.79 | 192.168.23.64 | 14 |
| 14.271.120.19/27 | 255.255.255.224 | 14.217.120.30 | 14.217.120.31 | 14.217.120.0 | 30 |
| 222.127.18.75/16 | 255.255.0.0 | 222.127.255.254 | 222.127.255.255 | 222.127.0.0 | 65,534 |