Student Id: 17201026 Name: Niamul Hasan

VLSM Calculation

The table will go here:

Base address:192.168.0.0/16

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| SN | NETWORK NAME | HOST REQUIREMENTS | NETWORK ADDRESS | SUBNET | FIRST HOST | LAST HOST | BROADCAST |
| 1 | CSE | 1000 | **92.168.0.0/22** | **255.255.252.0** | **192.168.0.1** | **192.168.3.254** | **192.168.3.255** |
| 2 | BBA | 500 | **192.168.4.0/23** | **255.255.254.0** | **192.168.4.1** | **192.168.5.254** | **192.168.5.255** |
| 3 | 4WEB SERVER : UAP,CSE,BBA,ADMIN | 5 | **192.168.6.0/29** | **255.255.255.248** | **192.168.6.1** | **192.168.6.6** | **192.168.6.7** |
| 4 | 4WEB SERVER: BD,INFO,NU.  BTV | 5 | **192.168.6.8/29** | **255.255.255.248** | **192.168.6.9** | **192.168.6.14** | **192.168.6.15** |
| 5 | R0-R1 | 2 | **192.168.6.16/30** | **255.255.255.252** | **192.168.6.17** | **192.168.6.18** | **192.168.6.19** |
| 6 | R1-R2 | 2 | **192.168.6.20/30** | **255.255.255.252** | **192.168.6.21** | **192.168.6.22** | **192.168.6.23** |
| 7 | R2-R3 | 2 | **192.168.6.24/30** | **255.255.255.252** | **192.168.6.25** | **192.168.6.26** | **192.168.6.27** |
| 8 | R3-R7 | 2 | **192.168.6.28/30** | **255.255.255.252** | **192.168.6.29** | **192.168.6.30** | **192.168.6.31** |
| 9 | R7-R9 | 2 | **192.168.6.32/30** | **255.255.255.252** | **192.168.6.33** | **192.168.6.34** | **192.168.6.35** |
| 10 | R4-R5 | 2 | **192.168.6.36/30** | **255.255.255.252** | **192.168.6.37** | **192.168.6.38** | **192.168.6.39** |
| 11 | R5-R6 | 2 | **192.168.6.40/30** | **255.255.255.252** | **192.168.6.41** | **192.168.6.42** | **192.168.6.43** |
| 12 | R6-R8 | 2 | **192.168.6.44/30** | **255.255.255.252** | **192.168.6.45** | **192.168.6.46** | **192.168.6.47** |
| 13 | R8-R9 | 2 | 192.168.6.48/30 | **255.255.255.252** | **192.168.6.49** | **192.168.6.50** | **192.168.6.51** |
| 14 | R0-R4 | 2 | 192.168.6.52/30 | **255.255.255.252** | **192.168.6.53** | **192.168.6.54** | **192.168.6.55** |

|  |  |  |
| --- | --- | --- |
| dns | Ip: **192.168.10.34/30** | **Subnet: 255.255.255.240** |