

Lab ProjectVL5M (Topic-3; Group-14)

Here,

CSE needs 3002 ip addresses.

MNS " 502 " "

BIL " 1002 " "

BBs " 2002 " "

SHSS " 122 " "

EEE " 202 " "

There are also 5 WAN-links.

∴ Brac University needs  $(3002 + 202 + 502 + 1002 + 2 + 2002 + 122 + 20)$  ip addresses  
or, 6854 ip addresses.

That means, we need to give Brac University  $2^{13}$  or 8192 ip addresses.

Now,

Let, the network address of Brac University  
be 192.168.0.0/19

Here,

we need to give,

CSE 4096 ip addresses.

MNS 512 " "

EEE 256 " "

BIL 1024 " "

BBS 2048 " "

SHSS 128 " "

Each WAN link 4 " "

(So, the VLSM tree is drawn on the next page.)

Therefore, the network address of each subnet should be,

For CSE,	192.168.0.0/20	For 5 WAN links,	192.168.31.128/30,
For BBS,	192.168.16.0/21		192.168.31.132/30,
For BIL,	192.168.24.0/22		192.168.31.136/30,
For MNS,	192.168.28.0/23		192.168.31.140/30,
For EEE,	192.168.30.0/24		192.168.31.144/30
For SHSS,	192.168.31.0/25		respectively.



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